

Professional tool

selected by Auto-Hebdo by pro-photographers to record the Formula 1 Grand Prix races.

Public's favorite

appointed "Camera of the Year" by Britain's Practical Photography readers and Germany's Photo Revue.

Press' marvel

"The A-I is an extraordinary camera, perhaps the most sophisticated 35 mm ever to reach the market", Popular Photography, (J.S.A.











IN THIS ISSUE



Page 6: Alan Jones has finally done it. The Australian has thrown off his car beaking image



Page 12: Ferrari and Ligier are duelling again. The French are regaining ground, the Italians are losing a little.

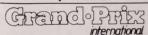
Page 42: Laffite is well placed in the World Championship. We went to see him on holiday in Normandy. He told us how his situation has changed.



Page 4: the Hockneheim paddock. Page 14: how the grid was won. Page 16: the film of the race. Page 20: Arrow' second gamble. Page 24 and 41: a postcard from Hockneheim. Page 25: the German Grand Prix in pictures. Page 48: lap by lap. Page 40: Hockneheim statistics. Page 52: Giorgio Piola's technical feature: the Copersucar F6A. Page 54: Maurice Hamilton's article. Page 56: Carlos Reutemann

Posters: Alan Jones (williams FW 07) and D. Pironi (Tyrrell 009)

150,000 copies of this issue have been published.



(Austria and Holland)
IS ON SALE 10 DAYS
AFTER DUTCH GRAND PRIX



REVENGE

When a leader fails to come round, one feels a sort of strange sadness, even a little frustration and anger. It doesn't matter who is the driver, nor which car it is, nor why the car stopped or retired. When a leader doesn't pass, there's the feeling of injustice mixed with surprise. Something's missing. For the statiticians, there's the lack of logic, for the sentimentalists, disappointment.

For a few months now, Jones has been one of those leaders who goes missing. At Zolder we got used to seeing the Williams leading, running like clockwork towards certain and much deserved victory, only for that hope to be cruelly dashed when the white car disappeared. The same thing happened at Monaco, to a lesser degree, and then again at Silverstone. Lady Luck was not with Jones, as she hadn't been in the past with Chris Amon for example. Jones had so often been heading for the winner's rostrum, and yet each time he never quite managed to make it. So at Hockenheim, even through one was dreading it, there was just that chance that Jones wouldn't come round. It was a thought that was unhappily one that came though force of habit. Then came a punctured tyre. Was that going to deprive him of the chequered flag this time? Fortunately that wasn't the case. On taking the chequered flag, Alan happily waved his fist. And finally he felt satisfied. He'd done more than just win, he'd had his revenge.

GRAND PRIX INTERNATIONAL IS DISTRIBUTED BY SEYMOUR PRESS LTD.: 334 Brixton Road-London SWB-7AG, Telex: 8812945 Seypress London, CHIEF EDITOR Eric Bhat.
ASSISTANT EDITORS: Bob Constanduros. CONTRIBUTOR: Maurice Hamilton, Lionel Froissard, ARTISTIC DIRECTOR: Macro Tomanis. EDITORIAL SECRETARY; Regis Lecroix.
ILIUSTRATIONS: Nicolas Gérion. PHOTOGRAPHERS: A + P, Barnard Asset, Harald Strabelle, DPP. Camera CANON, GRAND PRIX INTERNATIONAL is published by S.N. E.P.
PUBLISHING DIRECTOR: Michel Hommell. ASSISTANT DIRECTOR: Gérard Lips. EDITORIAL ADMINISTRATION: 7, rue de Lille, 75007 Paris, Tél.: 250.34, 55. ADVERTISING ProII 18/20, 7, rue de Lille, 75007 Paris, Tél.: 250.34, 55. COMMERCIAL DIRECTOR: Philippe Machin. PHOTO SETTING: Type-Etylede, Comportonic. PHOTOGRAYURE: RPM. DISTRIBUTED IN ITALY by: ME. PE. via Carcano 32.20141 Milano. Tel.: 32(7433141. DISTRIBUTED IN GERMANY; W.E. Saarbach GmbH 5000 Köln 1. Postfach 10 1610 Folherstrasse 2. Tel.:
2221/244631. Telex: 8831097. DISTRIBUTED in France by: "MMPP. Distributed in Belglum by; Y. AM.P. 103, Tensaels, DISTRIBUTED IN France by: "ATM.P. 103.54."
Africa, Canada, U.S.A., Holland. Spain, Switzerland, Sweden by: G.I.H. PRINTED IN FRANCE by: SARI, Montlouis, Clermond-Ferrand, SNIL/PPR. Commission Paritairs: 31611.

The paddock in Hockenheim

OSELLA F1, NEXT YEAR FOR SURE

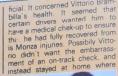
ormula One car, are, it seems, completed. The car will probably be in Formula One next year complete with Pirelli tyres, and probably driven by Eddie Cheever, currently in contention to whin the Formula Two cham pionship for Osella.



GEOFF LEES TAKES OVER FROM JAMES HUNT

As Jean-Pierre Jarier was unable to do the German Grand Prix because he was ill with hepatitis. Ken Tyrrell had to find another driver as quickly as possible. Bruno Giacomelli went to London to have himself fitted into a Tyrrell, but while waiting to go to the Tyrrell works, a phone call came from Alfa Romeo (to whom he is contracted) reversing their earlier decision to let him drive for Tyrrell. So Tyrrell reckoned that he would only enter one car for Didier Pironi in the German Grand Prix. However, pressure, it seems, from Bernie Ecclestone caused him to run a second car for Englishman Geoff Lees, who thus became the first Englishman since James Hunt retired to race in a Grand Prix. Tyrrell took the decision to run Lees at the last minute. With Candy as his Italian sponsor, there was pressure from the Italian press to run an Italian hopeful, especially as Lees wasn't on the list of replacement drivers published at the beginning of the year by FISA. But Lees's record shows that he is worthy of the drive. He won two Aurora races last year, and finished fourth twice in European

Formula Two races. Even though Lees was fairly staggered by the downforce given by wing cars, he progressed well. If Jarier isn't better for the Austrian Grand Prix, then it seems likely that Tyrrell will run the young Englishman in the car





ALFA FI WAITING **FOR MONZA**

Vittorio Brambilla, theoretically should have made his Formula One return at Hockenheim driving the Alfa Romeo Al that has so far been driven by Bruno Giacomelli in Belgium and France. But the team didn't turn up in the end. There were different reasons for this it "Our car is old, and wouldn't have been very competitive," Carlo Chiti told us. We would prefer to concentrate our efforts on preparing the new Alfa of which there may be two at Monza. We should start testing at Balocco during August if the car is ready in time A second reason for the Alfa's

withdrawal was slightly less of

he'll have a check before going

RENAULT'S MANAGING DIRECTOR **COMES TO** WATCH



M. Vernier-Palliez, the managing director of Regie Renault, was at Hockenheim to see his secondever motor race, and to watch his cars defending the name of his company. The first time he went to watch a race was at Le Mans where he saw a Renault win in 1978. Things weren't so good at Hockenheim, but at least he saw one of his cars start from

FLFORD REPLACES OPERT AT ATS



always bring out all the personali-

ties in motor racing. They come back for nostalgic purposes, to meet friends, some even have some work to do. But Vic Elford wasn't there just to meet friends Elford of course was a raily driver, sports car driver, and finally got into Formula One in the 1960/70s. It seems that he might return to Formula One, for Gunter Schmidt contacted him to ask him to replace Fred Opert as ATS team manager. "It's one of the reasons that I'm here," said "It's the best way of watching the team at work' Elford was intending to talk to Schmidt about his working conditions, insisting that he would be completely in charge of the team. It seems that by the end of the weekend, everything was tied up, Elford was back in Formula One again. "I'm very happy to be back," he admitted, "because my current business isn't that interesting. After I left Inaltera in 1977, I started a little import-export business in Brussels, but it isn't very exciting. Vic Elford hadn't been to a Grand Prix since 1977 at Monaco, so it was interesting to ask his views on Formula One following his new appointment. "I find, like many others, that there is a lot to criticise in Formula One. But in spite of the politics and the business problems, Grand Prix racing is the most interesting part of motor racing. Formula One is not really a sport any longer, it's a show. But it's not the only sport where business plays an important role, and public interest in Formula One doesn't suffer because of it. the personal front, I've been quite surprised that people still remember me. Of course, remember people, but they still remember me. I was afraid that because the business aspect is so important now that personal relationships would have suffer red, but I've been surprised and happy here at Hockenheim that hasn't been the case. atmosphere is perhaps more friendly than before. I've found the atmosphere this weeken

TWO **DEVELOPMENTS** AT LOTUS

Colin Chapman doesn't glive up easily. When he thinks and believes in an idea, it's hard to make him forget it. He's still convinced that the Lotus 80 can work, even though it's not been very satisfactory up to now. It still won't run successfully without the rear wing as it's meant to. A research and development programme is currently in progress on Chapman's latest, particularly on the aerodynamics A recent test in the wind tunnel gave some useful information about the car, and the 80 may reappear at Zandvoort, or even at Monza, after considerable aerodynamic modification The 80 will also be fitted with new rear suspension.

At the same time, new Lotus 79s will be run at the Austrian Grand Prix, and one of them was probably going to be tested at Zeltweg the week after the German Grand Prix. "Everything behind the engine is new," Nigel Bennett told us. 2"In fact the rear end is a very similar to that on the 80, using the same gearbox (lighter than that on the 79), and the brakes are in the wheels. But the bodywork will be the same as on all the 79s.

PETER GETHIN: SIX YEARS ON

Another well-known motor racing personality at Hockenheim was Peter Gethin, former Formula One McLaren and BRM driver. " haven't been to see a Formula One race since... 1943," joked Gethin, well-known for his sense of humour. "No. in fact it was the Canadian Grand Prix in 1972 when I last drove for BRM. Since then I've only seen Grands Prix on television. had come to Hockenheim to look after Geoff Lees whose career he's masterminding. He's also involved with Stephen South. "But I've done a lot more for Lees than Soth up to now." he admitted. Gethin has completely abandoned the idea of being a

year for the Briggs Formula Two team. "It's very discouraging working for a team that has absolutely no chance of suc-

LAUDA'S THIRD **PROCAR WIN**

He may not be winning Grands Prix, but Niki Lauda is winning Procar races. He took his third win of the season at Hockenheim. He was challenged by both Didier Pironi and Jacques Laffite, but latter dropped back with gearbox trouble, and Pironi was overtaken by Hans Stuck who finished second.

IROC: GETTING IT TOGETHER

A representative from IROC (International Race of Champions) was at Hockenheim to contact some of the Formula One drivers about driving in the first IROC race at Atlanta (Georgia) next October 27/28. The traditional series of races poses Formula One drivers against the best American drivers. Alan Jones, Emerson Fittipaldi, John Watson, Mario Andretti and Jacques Laffite are already going over for the series. The IROC man also hoped to get Jean-Pierre Jabouille and Carlos Reutemann to do the series. Jacky lckx will also be doing it but as a CanAm

A RACE. A MECHANIC:

ANTONIO BELLENTANI (FERRARI)

general, Formula One mechanics are young men. The itinerant life-and demanding too-that they lead season is tiring. After a while they become saturated with the life and often prefer a more relaxed form of work. But Antonio Bellentani has overcome these problems. At 47always given such responsibi-

cars. The long distances races were very hard, particularly the 24 hour races. Once at Le Mans, a mechanic fell asleep under the shower he was so tired ...

Bellentani became a sports car chief mechanic in 1969 and moved to Formula One in 1973 Formula One and abandoned the sports car programme. But Bellentani enjoyed his sports car days. "The P4 and 312P cars were tremendous, the most beautiful I've ever worked on." Formula One was a great experience for Bellentani. He rapidly became a respected and hardworking mechanic to the extent that he was promoted to chief mechanic when Carlos Reutecome these problems. At 47- mann arrived in the team at the years-old, he's a Ferrari chief end of 1976. He was already over 40, which no doubt helped him being chosen for the job. Within the Scuderia, such



He's a big, bald, brute of a man. appointments are only made to One can imagine that he may be men who have been in racing a quite placid, but in fact he works long time. Perhaps that's the hard. He's the chief mechanic on reason for the fantastic reputa-Jody Scheckter's car. Sometimes tion that they've built up under Antonio Bellentani gets excited. but without getting angry. He gives his orders efficiently, he works on the car himself, he concentrates, conscious of his responsibilities and proud of his

team, for a mechanic, is an honour, almost more than that. The team of mechanics working for the Scuderia have always been surrounded by the reputation of the name that they represent, and equally for what that name has represented in the past. Remember Mario Andretti's accident at Ontario in 1971. The car was destroyed, it almost certainly couldn't take part in the race. But the mechanics worked hard and brought about a virtual miracle. The Ferrari was repaired and Mario won the race.

Antonio Bellentani started off with the sports car team in the World Championship of Makes. That was way back in 1962, the year he began to work for Ferran "Races were very long and our job was harder than it is now". he says. "We were working on both Formula Cars and sports

Peter Schetty and Mauro Forohieri which is virtually folklore now. "They have Latin spirit and English ability", they say of the Ferrari team.

Although he's reserved, Bellentani has great regard for Jody Scheckter, "his" driver, especially for his exuberance. "When he's happy, he passes the time joking and playing around like a But Bellentani's really favourite driver was Lorenzo Bandini "I loved him like a brother He was always with us, working with us, encouraging us. I was very upset when he was killed." There may not be an Italian driver within the team, but that makes little difference to the mechanics. 'We always get on better with or maybe when they have a bad accident, it's that much harder



IT MAY ONLY BE THE START

After so much bad luck, he thought he was jinxed. But he still hoped for the best. And the German Grand Prix was the light at the end of a dark tunnel. Now Alan Jones can be considered a winner and no longer someone who retires in the lead. Frank Williams see him as one of the three best drivers in the World. With Patrick Head, Frank and Alan are going places. Success has strengthened their will.

by Eric BHAT _

"I was fourth, and what good's that? I want to win, that's all". Alan Jones was really annoyed Jean-Pierre Jabouille, the winner, hadn't even mounted the winner's rostrum after the French Grand Prix. Yet Alan was already talking of his disappointment. He was still flushed from his exertions over the last hour and a half, yet he was more angry than tired He brushed off the journalist who was asking him questions. "You want to know what happened? You can write what you want, the engine, gearbox, brakes, I don't care. All I know is that I didn't win."

It was easy to understand Alan's predicament on July 1 at Dijon. Fate had all but snubbed him. In Belgium and at Monaco, he'd been heading for a good position, a win at Zolder, third in Monaco, yet on neither occasion had he finished. And at Dijon, when he wasn't in contention for the lead, he'd finished. Destiny wasn't dealing him a fair hand.

VERY DISAPPOINTED

And that wasn't all. Two weeks later at Silverstone, fate dealt him another blow. He was well in the lead when he had to pit when the engine failed. That time, Alan was no longer angry, he was too disappointed for that. "It very much wanted to win the British Grand Prix, because it was more or less my home event. And I wanted to give Frank his first Grand Prix victory. I've worked very hard with the team, and I wanted to give Frank his first win. And I retired. I wasn't as angry as I thought I would be, just very disappointed."

What was the point of being angry when

that good result was already gone? When Frank asked him if he id been driving too hard. Alan smiled sadly. He just said quietly sorry, but I was pretty slow." A straight explanation without

When the car was overhauled back at the factory, Alan was indeed vindicated. "The engine broke because of a fault in a pipe to the water pump," explained Frank Williams. "Aweld cracked, the water leaked out and a piston seized."

"It could have happened at 5 mph or 180 mph. it makes no difference," added Alan Jones. "The way I was driving had nothing to with what made me stop. I was revving the engine to 10,700, I was braking early, I was watching the temperatures all time, I thought I had everything under control. And I still retired."

When reasoning is pushed to its limits, perhaps it would have been better if Alan had pushed the car too hard. At least that way he could have found a remedy, not to do the same thing next time. But the way things turned out, what could he say, what could he do?

Even though Alan's a fairly solid bloke, he began to have his doubts. Was he jinxed? His morale was a little low when he arrived at Hockenheim for the German Grand Prix. "Losing races like that just isn't right, it's very hard, very difficult, heart-breaking," was how he explained those lost wins. "I'm sick of it. I'm sure that during the early part of my career I must have had some lucky results and now I'm payingfor them. But I'm sure my luck will change.

TYEAR

things will be different, and when they are, i think I'll have a very good run After Zolder, Monaco, Silverstone, op. nion was that Jones was perhaps too determined. The Australian driver was a victim of his own reputation, one that would normally have been flattering, yet seemed to be working against him Certainly Jones shows that he's an attacking driver, he's determined, he's a fighter. It's often the talk of the racing circus. "Jones really tries hard" they say, and before Hockenheim, they were adding "perhaps a little too hard." But Alan's character is such that he makes light of such criticism. "People will always say things, and they can say what they like. If I'd won at Silverstone they would have said that I should gone quicker or something.

Jones was convinced that his lack of success was purely and simply due to bad luck, but he explained his own enjoyment of racing. "The ultimate form of pleasure is to win a race. However, I derive a lot of satisfaction from simply being fast. To get a good grid position gives me a lot of pleasure because I've tuned my car well and driven it hard to get there. It brings me a lot of satisfaction and gives me a lot confidence. When I'm lucky enough to win as well, then that' be the complete job."

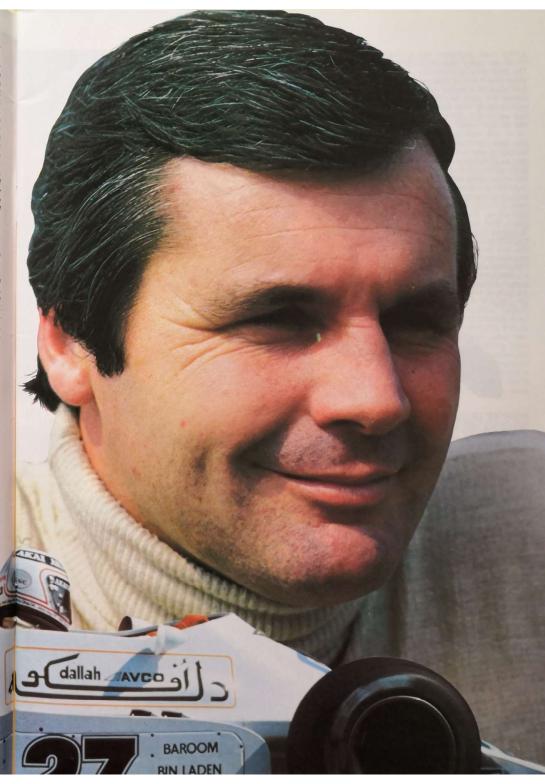
PERFECTION IN ORGANISATION

As you can see, Jones arrived in Hockenheim, once again determined for revenge. As it happened, things didn't go right for him straight away. He was second fastest behind Jabouille after the first day's practice, but he'd had a problematical day. The gearbox gave up early in the first session. In the afternoon, oil pressure disappeared on the race car's engine and Jones had to use the spare. In that car, he couldn't get within a second and a half of Jabouille's best. "I could have gone quicker if I'd been driving my race car, I found it a lot better than the spare."

Alan Jones

ALBILAD

Frank Williams vas very conscious of



Jone's two problems during Friday You can never relax in motor racing. The team may be more con. Jent following Clay's win at Silverstone, but we still have to improve the organisation within the team in order to avoid this sort of thing. The cars may be quick, but we've still got to make progress. We're not really working perfectly, we're still making small mistakes on the cars, sometimes we're spending money in the wrong way. We've still got to improve a lot of little things, even when we're working in the pits. We're not really slick.

Jean-Pierre Jabouille set his pole position time thanks to slipstreaming two cars. On Friday evening during the usual debriefing, Frank Williams, Patrick Head, Alan Jones and Clay Regazzoni discussed the possibility of running the two Williams together so that they could tow one another. "But in the end we abandoned the idea," said Frank. 'Slipstreaming is important here, but it's difficult to arrange. You still need a certain amount of luck if it's to work.

Jones didn't have the use

of a tow

during the second qualifying session. Without any help from another car, but using his normal car, he improved by 1"2. That confirmed his front row position, but it wasn't quick enough to bump Jabouille off pole position. The French driver's Renault constituted Jones's greatest threat. "I'm going to have a lot of trouble at the start of the race", Jones reckoned on Sunday morning. "The Renault is a lot faster thant the Williams in a straight line."

Jean-Pierre talked of acceleration after the warm-up: "with full tanks you can really feel the weight of the car. I'm slower under acceleration than the Fords and Ferraris". When Jones learnt of Jabouille's comments, he said "I'll willingly swop my acceleration for his straight line speed.

Both the Frenchman and Australian suspected that one of the two of them would win

SILVERSTONE ACTION REPLAY

In fact both of them took off at the start of the race, leaving the rest behind. But contrary to his suspicions, it was Jones who led, seemingly at ease. The heat that filled the Hockenheim bowl caused a slight loss of power on the turbo engine and that lost it a little top end speed. Jabouille tried really hard to keep up with the Williams, to such an extent



Alan Jones was the winner of the German Grand Prix, and there's no reason to suspect he won't win more races.

that he made a small mistake on the eighth lap which cost him the race. The race was now dominated by Jones And bad luck? Was it following Jones in his slipstream? At that time, the German Grand Prix was strangely reminiscent of the British. Jabouille was out, and Jones was alone in front, but there was still along way to go.

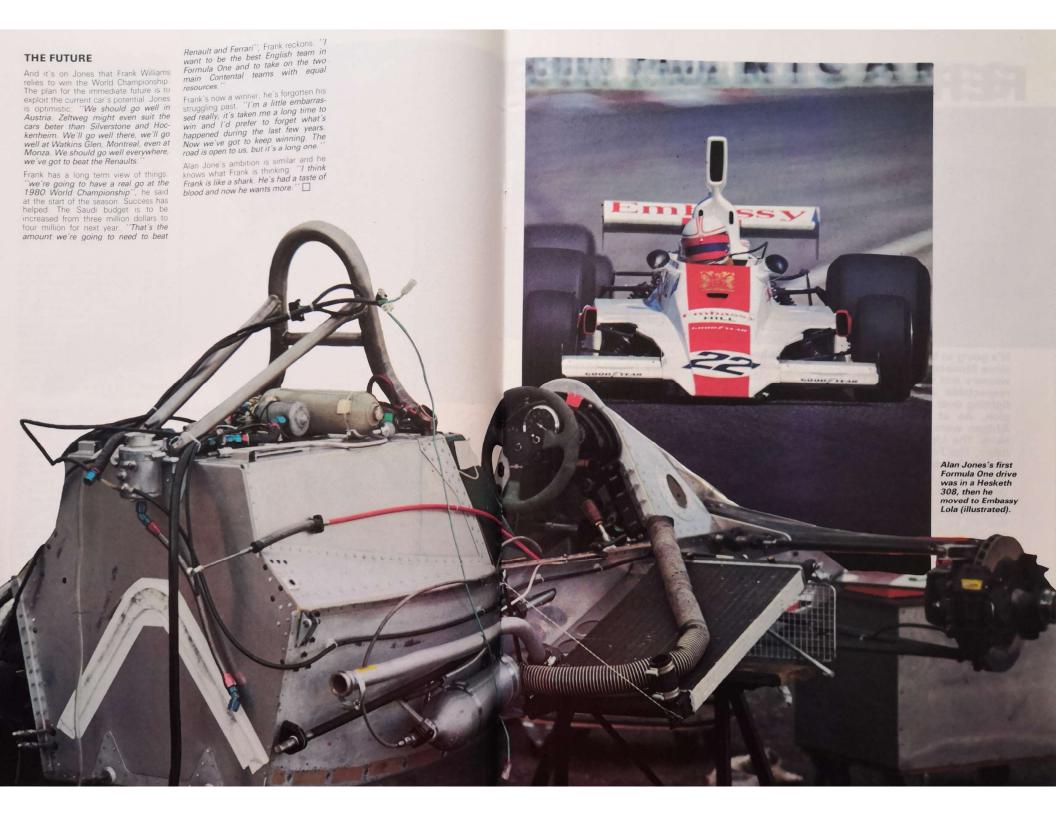
It was a long wait for Frank Williams who really wanted his number one driver to win. For Frank in the pits, just as for Alan Jones in the cockpit, the final laps seemed to take forever. Equally, the 100,000 spectators seemed to think that Regazzoni would take victory again. for he was catching his team leader in leaps and bounds. Jone's engine had started to misfire. Then even worse, one of his rear tyres had a slow puncture. Frank didn't stop fiddling with his stop

But Alan made it in the end. Never had a chequered flag made him so happy. "I haven't won a Grand Prix since Austria in 1977. It's a long time to wait for another, it's almost like winning my first Grand Prix", he laughed happily after the race in the motorhome filled with journalists. Frank was there, Patrick Head and Clay Regazzoni who had capped the Williams day by giving them a 1-2. It was perhaps the experienced Swiss who was the happiest and relaxed of them all. The other three seemed a little strained, as though they really wanted to be alone to savour the taste of victory together.

Patrick Head, Alan In fact the three of them are really close friends and colleagues. Frank has tremendous regard for the two men who could do so much for him, and he doesn't hide the fact. "As far as I'm another, motivated concerned, it's quite clear that Alan is by the same will to one of the three best drivers in the World along with Villeneuve and Reutemann. And Patrick makes it happen thanks to his car. Without him we wouldn't be where we are now. I have complete confidence in Patrick, I rely on him a great deal. He's completely in charge of the technical side of the team. He's built up a team of technicians around him, and he leads them. Patrick consistutes 50 per cent of our success.

NORMAL MEN

Patrick Head is like Alan Jones: descreet, unobtrusive yet good at his job. On the other hand, that's perhaps normal for a designer who's rather more in the shadows than for a public man like a driver. Alan Jones is perhaps one of the more paradoxical Grand Prix drivers, because his behaviour on the track is unlike his behaviour off it. He seems a calm man, a quiet family man. not the sort of guy who drives a car as hard as he does. It's only when you get a lot closer to him and talk to him that you discover his real determination. even though it's obvious when you're watching him on the track.



FERRARI-LIGIER: THE DUEL CONTINUES



It's going to be a Ferrari or a Ligier. That's been obvious since Monaco. Jones and Jabouille may now be the race winners and the men at the front of the field, but at a respectable distance, Scheckter and Laffite are still fighting over which of them will become World Champion. As at Silverstone, the Frenchman and South African were battling against one another at Hockenheim. The Ligier team were somewhat happier in Germany. The Ferrari team were a little more on edge. It's an odd championship.

The scene is Dijon, not so very long ago. Jody, seeing Jacques in the paddock, walks over to him. Laffite had been battling hard in the middle of the field during practice. Scheckter, on the other hand, was at the front of the grid with the Renaults. The Ferrari driver takes advantage of the situation to tease his main rival in the World Championship. Taking Jacques by the hand, he speaks to Jacques like a mother to her child. "Don't worry, Jacques, it's not serious." Laffite smiles and returns, in French, "yeah, yeah, you'll see, I'll get my revenge." Jacques is an easy-going sort of fellow, and Jody can be the same when he's confident among friends. There's no tension between the two of them. It was apparent a month later at Hockenheim. The placing of motorhomes and caravans in the paddock just happened to position the Ferrari and Ligier teams alongside one

Naturally the teams passed one another frequently throughout the three days, and they exchanged amused smiles and jokes each time they passed Marco Picininii even dropped in for an Armagnac with the French team. Half-joking, Guy Ligier asked him about the problems of the Ferrari turbo engine. "Tur-

bocharged engines are going to kill Formula One. You're going to race your Ferrari turbo soon. You're not going to sell engines. Renault aren't going to sell their's. What are the rest of us going to do?" Ligier's tone was earnest, but Picinnini suspected a trap: "what turbo? We haven't got a turbo engine. Ducarouge almost choked on his Arma-"Come one," he laughed. 'you've been testing it for ages. Six months ago you told me what tremendous power you're getting from it." And the conversation continued without the least aggression. It was a typical exchange between the teams. There'll be more like them between Ligier and Ferrari at race tracks. The Latin teams don't just stare at one another like cats

"TOM'S" ANGER

"You're getting lucky again," Scheckter shouted to the Frenchman on Friday
afternoon as he went back to the Ferrari
caravan. After their considerable lack of
form at Dijon and Silverstone, the Ligier
team were a little more confident at
Hockenheim. Jacques set third fastest
time in practice. On the other hand, the
Ferraris were floudering. Scheckter was
ninth quickest, Villeneuve twelfth

A few minutes earlier, during the qualifying session, the normally calm and pleasant Tomaini who works on Gilles' car had blown his top. Red in the face and furious, he threw his note book down on the ground. At that time, Gilles was having his brakes adjusted. "Everyone loses their temper from time to time," he said later. "There are little moments like that in every team. It makes no difference to me."

Gilles' calm reaction leaves one to suspect that "Tom's" anger was directed towards him. "No, not really," said the Italian later. "I was mainly angry because of the times. I was expecting Gilles to be a lot better qualified than twelfth. We came here for private testing after Dijon. We were using tired engines and Gilles set a 50"3. I reckoned that that would be a competitive time. Then during the first qualifying session, we couldn't do better than 51"2. I was really amazed to see the times, and the drivers were just as surprised. We haven't been able to find a plausible reason for them. We don't seem to be adjusting the car in the right way. When things start to go wrong, it's almost catching and we don't make progress. That's why I was

Forghieri was very evasive as he usually is when things are going wrong. 'Look at the list of times. You see where Jody is? You see where Gilles is? That's where the problem lies. The others are quicker than us.' When you question him further, he becomes a little more lucid: 'just as at Silverstone, Hockenheim has a lot of flat out driving. I knew that we wouldn't be very competitive here.''

Villeneuve summed up the situation.
"I'm having a lot of trouble trying to get my car to do what I want it to do."

Things improved considerably the next day, principally for Scheckter who set fifth quickest time, gaining a whole second in relation to his Friday time. "I know why you set a 50"00," Marco Picinnini laughed, "it's exactly the time that you said you would set in the competition as to which driver can set a time closest to the one he guesses he can set." Jody had forgotten the fact. He burst out laughing. "There, you see Marco, I'm neither optimistic nor pessimistic. I'm realistic." Then, turning to us, he explained: "There's something strange about the temperature here. They say it's getting hotter. Perhaps it wasn't favourable to us yesterday. I haven't really altered the car much. I made slight adjustments to the anti-roll bars, springs, but nothing great.

Villeneuve jumped up two rows of the grid during the second session. "It's not going too badly," he said without a lot of enthusiasm. "I'm fast enough on the straight, but slower in the stadium. It's the opposite now of what it was in private testing, the car isn't good at low speed."

The Scuderia were somewhat downcast at the end of practice, they hadn't really made much progress.

LIGIER: HOPEFUL

In the neighbouring motorhome on the other hand, there was a certain air of satisfaction. From the start of practice, Laffite professed himself happier with the car. At the end of the first session, he'd set third fastest time and was optimistic. "My car's now almost as good as it was in South America," he explained. "I set third fastest time with a gearbox that really wasn't very good, it kept jumping out of third and I had to hold it in. Furthermore, third is a gear

we use a lot. Tomorrow I'm going to do even better, that's for sure."

Gerard Ducarouge was chatty again. "The work we've done has paid off. Our aerodynamic modifications (side pod wings of different shape and length) are in the right direction. Furthermore, we've done a lot of checking. We've made a lot of detail improvements, and we've rejigged the aerodynamics and checked things that might have moved. Tomorrow we'll be the fastest Ford-powered cars again, because Jacques lost a few tenths today because of his third ear."

Guy Ligier entered the conversation. He was smiling again, despite toothache. "That's racing," he said. "You gain, you lose, and when you lose, you have to make up ground again. I think we're gaining again now."

On Saturday Jacques Laffite did as he said he would, beating Jones's Friday time, but the Australian improved again on Saturday. Jacques was third fastest behind Jean-Pierre and Alan. But he was still smilling, he was faster than the Farrarie

STRAIGHT FIGHT

Motor racing is sometimes very fair. Laffite's Ligier and Scheckter's Ferrari were directly opposed to one another during the race. It was the same at Silverstone where the two World Championship rivals ran together. Jacques was right behind Scheckter and then managed to get by before retiring. But the Frenchman held on to his advantage in the German Grand Prix. Scheckter tried to hang on to Laffite's Ligier but it was soon obvious that he couldn't stay in the slipstream and slowly he dropped back, finishing 13" behind the Ligier at the end. Laffite finished third and

Changing fortunes in the Ferrari and Ligier camps. Villeneuve may not be so happy now, but Laffite has found lost form.

Scheckter fourth, the Frenchman gained just a single point from his South African rival. Villeneuve was in fifth place for a long time but dropped out of the points with a pit stop.

There was an air of optimism in the French camp after the race. Ligier and his team congratulated Laffite as though he'd won. Whatever, they seemed to have become competitive again.

"The Williams are not unbeatable," said Jacques. "It didn't take much to stay in front of Clay. But to win the championship, I've got to win races." Ducarouge went further. "The car is now fairly competitive again. We've still more aerodynamic and mechanical

now fairly competitive again. We've still more aerodynamic and mechanical improvements to make and we're going to try out these at Dijon. For that reason, I've cancelled our testing at Zeltweg. Consequently we've four or five days work at the workshop during which we can prepare two very competitive cars for Austria. The championship isn't finished yet."

Next door, the place was nearly deserted. Forghieri, Scheckter and Villeneuve had already left for the airport in order to test at Zandvoort next day, Nevertheless, Marco Picinnini was there. Was the team happy with Scheckter's fourth place? "Yes, it's quite a satisfying result, we cut down the damage." He made a face at the same time, which looked more like a scowl than anything

HOW THE GRID WAS WON

It wouldn't be exaggerating to say that Jean-Pierre Jabouille spent most practice very comfortably sitting... on a folding stool. In fact he proved that he didn't really have to do that many laps. He set his all-conquering time very early on in the first qualifying session. Jones and Laffite tried hard to bump him off pole position, but neither of them succeeded and Jean-Pierre was fastest in practice for the third time this season.

FRIDAY MORNING: JABOUILLE AND LAFFITE SHOW

At a quarter past ten on Friday morning Jean-Pierre Jabouille's Renault pulled into the pits and stopped. The session hadn't been going longer than fifteen minutes. but it had been an intense fifteen minutes for the Renault driver. He d set the fastest time and then spun in the stadium Both skirts were broken and they weren't repaired before the end of the session.

The main surprise was Jacques Laffite's second fastest time. The Ligiers hadn't been so high up the grid since the Belgian Grand Prix.

The Williams came next, Regazzoni in front of Jones, but the latter didn't do many laps because of gearbox damage. Then came the two Brabhams. Watson's McLaren and the first of the Ferrans, that of Scheckter Things weren't going well in the Ferran camp.

FRIDAY AFTERNOON: **JABOUILLE ENSURES POLE**

It didn't take Jean-Pierre Jabouille long to set the fastest time of all His car was quickly set up and then he benefited from two tows in succession. The result was that he set a time 2" faster than the rest. Jones reduced the gap to 1"5 later. but he set his time in the spare car pressure Lattite confirmed that things were going better for Ligier

after his race car had lost oil by taking the third quickest time. even though his gearbox was playing up. Arnoux, fourth quickest, was second at the start of the session but a loss of turbo boost meant that he couldn't defend his time later in the session. The Ferraris were a long way back. Villeneuve's engine

went in his race car. The Italians aren't always happy. Pront, on the other hand was perfectly content He d set lifth lastest time. The Tyrrells are up quicker than eve-

SATURDAY MORNING: SAME STORY

Jabouille Jones-Laffine, that was the order after the first qualifying session, and it was the same on Saturday morning after the second free session. Jabouille was quickest. but had a tew little problems. The car understeered for a while. almost certainly because the skirts weren't working. And then I had a small problem with the brakes.

Jones (who had his race car again) and Laffite set their times on softer race tyres. 'These tyres almost certainly wouldn't last a race," explained Gérard Ducarouge Villeneuve was fourth fastest and that seemed to augur well for Ferran "It's better than it was yesterday. We've modified both front and rear suspension, and I've changed a whole lot of little things.

There were two surprises in fifth and sorth places in the session. Keke Rosberg and Patrick Tambay, rarely in such good positions. Tambay said he was delighted with his new M29 And it wasn't a very polite gesture to his teammate he was 2/10ths quicker

SATURDAY AFTERNOON: JONES AND LAFFITE TRY

Alan Jones and Jacques Latfite seemed determined to improve their times considerably during the second qualifying session after their problems the day before. They both improved, but not sufficiently to



The wheels rubbed against the uprights on Reutemann's spare Lotus. The mechanics had to do some filing.

Jean-Pierre

a quick time

approached.

Jabouilla:

take pole position off Jabouille Laffite unable to go faster than straight down to Jones who occupied the other front row position.

which was never On the other hand. Piquet and Scheckter both did well to find another second each. The Brazilian made it onto the second row However, he was deprived of his last set of qualifiers because Niki Lauda demanded them But the Austrian couldn't do better than his teammate, he had to be happy with the fourth row beside Didier Pironi The latter was disappointed his race car's engine broke and he had





to do his time in Geoff Lees's car. Arnoux didn't go out at all. His engine broke in the morning and they couldn't change it in time. Jabouille only went out at the end of the session to check his brakes. At the last minute, Rebaque grabbed the final grid position from Gaillard.



Nelson Piquet, still the faster Brabham driver. Niki Lauda is beginning to wonder...

THE FILM THE RACE

The battle for first place lasted for a little more than seven laps during which Jean-Pierre Jabouille caught Alan Jones. Then Jabouille left the road and couldn't restart. With him went the main interest in the race, leaving Jones alone at the front. Laffite inherited second place which Regazzoni quickly took over: from the 13 th of the 45 laps, it was clear that Williams were going to take a 1-2.



1. - Jabouille has been slow off the mark, Jones has the lead at the start with Laffite right behind him. The Ligier driver isn't in second for long...



2. - ... in fact it's Jabouille who comes by second 3. - Jones, Jabouille, Laffite. Scheckter, that's the first time into the stadium in front of Laffite the order after the first lap. and Scheckter. The rest of the field led by Regazzoni are already some way back.



4. - Regazzoni, Piquet, Lauda, Pironi, Andretti, 5. - The tail-enders are Rosberg, Lammers, De Villeneuve and Arnoux, they're chasing the first Villeneuve and Arnoux, they're chasing the first Angelis, Fittipaldi and Rebaque.





places thanks to a broken skirt. Tambay, Ickx and Jabouille has to work hard to stay with Jones. Watson will all get by him in a few laps.

6. - Fourth lap: Didier Pironi is losing a lot of 7. - The leaders are already well out in front.

ones was the quickest off the line when the light turned green. Jabouille was a little slower, to an extent that Laffite, starting behind him, succeeded in squeezing by into the first corner. Jabouille got his second place back before they came into the stadium for the first time: Jones in front of Jabouille, Laffite was in third in front of Scheckter. Regazzoni, Piquet, Lauda, Pironi, Andretti, Villeneuve, Arnoux, Tambay, Ickx, Watson, Reutemann, Mass, Lees, Lammers, Patrese, Rosberg, De Angelis, Rebaque and Fittipaldi. Stuck didn't even do one lap; broken suspension. Jones and Jabouille were setting a scorching pace. At this rate, the leader must come from one of these two who were leaving their pursuers well behind. They pulled out a second a lap easily on Laffite who was in third during the first laps. The race looked like this: Jones leading Jabouille who was slowly pulling in the Williams. Behind them, third place was disputed by Laffite, Scheckter and Regazzoni. Then came a bunch comprising the Lauda and Piquet Brabhams, then Pironi, Andretti, Arnoux, Tambay, Villeneuve, Ickx and Watson. Reutemann followed them on

Jabouille, brakes locked on, leaves the track

the first lap but went off during the second, blaming Patrese who denied On the eighth lap, there were two main changes in the order. Jabouille had caught Jones and was right behind his rear wheels, but locked his brakes at the start of the hairpin in the stadium and went off into the sand where he remained stationary: the engine had stalled. « I was really at the limit, trying as hard as I could in order to stay with Jones. I made a small mistake », he said after the race. So Jones went by in the lead with a seven second lead to Laffite who was having to put up with Scheckter's attempts to wrest second place from him. But Regazzoni was also trying hard and overtook the South African on the seventh lap. « It

wasn't very difficult », said Regga later. « I was faster than Jody around the big curve at the end ». Jones was alone in the lead, and the battle now was that of Laffite and Regazzoni for second place. Scheckter tried hard to follow them, but he was a couple of lengths behind and that stopped him from really being involved. Laffite managed to hold the Williams driver for five laps. «I couldn't really have a go at Jacques », said Regga « He was a lot faster than I was in a straight line, and I could never catch him in order to overtake him under

braking. My car's road-holding was better than his and I caught him in the corners, but then he'd leave me behind on the straights again ». Laffite was having trouble keeping the Williams behind him, and thought that the Williams was slightly better than the Ligier. It finished up when Laffite made a small mistake and Regga made full advantage of the fact and nipped by. It was on the 13th lap in the second chicane.

Laffite tried hard to stay in the Williams's slipstream, but then he made a second mistake which lost him all contact four laps later. « I half spun



8. - Laffite, from the start of the race, is in third place in front of Scheckter, Regazzoni and the two

9. - It's all over for Jabouille. On the eighth lap he locks up his wheels and spins off into the dust. The engine stalls and he can't restart.

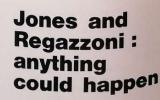
10. - Clay Regazzoni has started to move up. He's just passed Scheckter (eighth lap)...

11. - ... and five laps later, he takes second from Laffite.



12. - Villeneuve has climbed up through the field and here he's right with Lauda from whom he's

13. - Patrick Tambay has been slipping back thanks to engine trouble. The two Arrows catch him and overtake him on the 25th lap.



wed by Lees, Rosberg, the two Shardows finally dows swapping places, and finally Rebague Apping places, and the Rebaque. Arnoux had retired on the



trouble during the final laps with the deflated right Jones deserves the crown. rear tyre.

12. - It's a Williams double, but Alan Jones had 15. - Another "dry" rostrum: no Champagne, but

once again in the second chicane. Without Regga's tow, I couldn't follow him ». So Jacques had to be happy with maintaining a gap to his principal rival in the championship, Jody Scheckter who was now two seconds behind.

On the 15 th lap, one third distance, Jones was easily leading but was still taking a second a lap off his teammate, a solid second in front of Laffite and Scheckter. Thirty seconds behind the leader, Villeneuve had been in fifth place ever since the eight lap. He'd overtaken Tambay, Pirono, Arnoux, Andretti and Lauda,

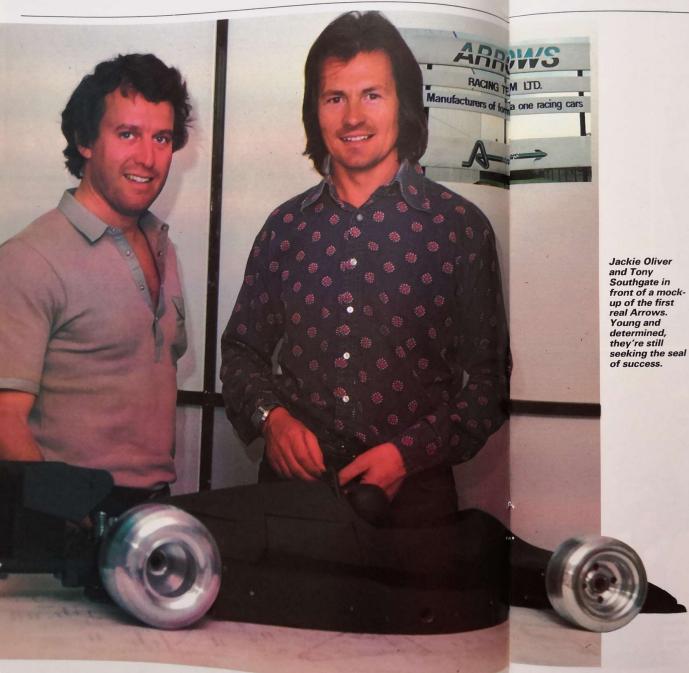
The Austrian was in sixth place on that 15 th lap, leading a bunch: Ickx (another to come through the field well), Piquet, Watson, and Andretti who was beginning to have problems. Tambay was behind this group, already in engine trouble which was no reward for his good drive early on. He'd got up to ninth place, two places in front of his teammate before his engine started losing power as it wouldn't pull the revs.

Tambay was followed by Pironi. One of his skirts was missing and he was losing places. Catching him up were the Mass and Patrese Arrows, follotenth lap after one of this tyres had burst. From then on, the race became one of elimination. Ickx had a puncture on the 25 th lap which damaged his rear suspension, then a lap later Lauda's engine gave up, and Patrese also had a puncture on the right rear

Piquet was the principal beneficiary of the lckx and Lauda retirements, for he was now sixth which was to become fifth when Gilles Villeneuve stopped at his pit on the 37th lap with the rear wing askew.

From half distance, the race became a procession. Scheckter couldn't do anything about Laffite who in turn had given up trying to catch the two Williams in front. But 15 laps from home, interest revived. Jone's engine started misfiring at high revs and more than that, his right rear tyre was going down. His margin of 22 s on the 32 cnd lap to Regazzoni was rapidly reduced. Four laps from the end, only seven and a half seconds seperated the Williams cars. Everything was possible; Regazzoni could perhaps cut the dificit. After his disappointment in the British Grand Prix, Jones could well have lost another win, but this time he hung on to win by three seconds from Regga who had by that time ceased to take advantage of his teammate's bad luck. Laffite and Scheckter naturally took third and fourth places. Fifth should have gone to Piquet, but the Brazilian was unlucky to have to pull of three laps from the end, stopped, like his teammate, by engine failure. So John Watson took fifth place in front of Mass who was one of the main beneficiaries of the numerous retirements. Geoff Lees drove at a steady pace in his first Grand Prix and finished seventh which satisfied Ken Tyrrell in particular.

«from race to race»



ARROWS: ANOTHER GAMBLE

It was a bit of a gamble when Jackie Oliver, Tony Southgate and Alan Rees decided to leave Shadow in 1977 to start Arrows. The three men wanted to do their own thing, to form a Formula One team themselves. And when they debuted their revolutionary new Arrows A2 at Dijon, they took their second gamble. If they win with the car, it will be a victory for the youth of the team, their aggressiveness and their boldness. Jackie Oliver was a former Formula One driver, and is a director of the team. It is he who tells the story.

by Eric BHAT.

Jackie Oliver is honest when talking about his own desire to form a Formula One team. "I realised early in my career that my driving had its limits. It was a fruitful career, but I never won a Grand Prix and I felt a sort of frustration. Towards the end, I was sufficiently mature to realise that it wasn't just bad luck. I didn't really have all the necessary qualities to become a top driver. Motor racing had been my life, I first drove racing cars when I was 16, so I knew enough about it to know that I wasn't going to be World Champion. All the same, I wanted to win a Grand Prix, and if I couldn't do it as a driver, I wanted to do it as a team manager.

THE SHADOW ALLIANCE...

That's how the idea of forming his own team came about. This idea had been in his mind for a long time, and was finally realised at the end of 1977 when Oliver founded Arrows. But Jackie didn't simply go out and form his own team. Within Shadow, Oliver quickly began to assume responsibility not just for driving, but also for managerial matters and organisation. It was a deliberate move. "In this life", explains Oliver, 'you can't just decide to do something one day and do it the next. Firstly, you can't gain the necessary experience immediately. Secondly, you can't get respect from the people you want to work with when you're making mistakes and learning. There has to be a transition. So I knew that if I stopped racing in 1974, I wouldn't be managing my own team in 1975. I had to

learn how to run a team before getting it together myself."

Knowing that he wouldn't be a really top driver. Jackie Oliver nevertheless moved to the United States in 1971. "My aim wasn't simply to drive", he says today. "but to meet someone with whom I could be associated in a team. At that time, I didn't know that one day I would want my own team, but I wanted to get on in motor racing. I wanted to learn something other than driving, so that later, I would still be involved in racing. I met Don Nichols who was just starting CanAm racing and I joined up with him."

Oliver drove in the Shadow CanAm team first of all, and then drove Formula One in 1973, but at the same time, he was learning about the art of running a team. "I was the CanAm team manager, and was involved in Formula One organisation. I was in charge of the business side, relations with the sponsors and that sort of thing. Unconsciously, I was a lot more involved with organisation than I was with driving, and was only involved in organisation, in Formula One at least, from 1974. That was part of the process which would ultimately lead to forming my own team."

...THEN THE DIVORCE

Today, Don Nichols probably realises that he created his own rival. Jackie Oliver has indeed formed his own team, for he took from Shadow not only Tony Southgate, Alan Rees, Dave Wass and many of the mechanics, but also copies of the drawings for Shadow DN9

«from race to race»

According to Oliver, it was an inevitable and logical ending, "We had out disagreements. There had to be limits to my association with Shadow. Perhaps I was right, perhaps I was wrong. All that I knew was that our relationship had to come to an end, and it was an unhappy break-up. When you're talking of break-ups, whether it's in marriage, business or motor sport, 99 per cent are unhappy: there are always recriminations. Our's was no exception and it ended in court."

Nichols didn't want to see in Grand Prix racing an Arrows that had been designed by Southgate while he was working for Shadow. He brought a court action, which Jackie Oliver explains thus. "we'd decided to split up, and the main argument was as to who would keep the kids, and who would pay the maintenance".

Well. Nichols kept the kids as it were. And Arrows were the ones who had to pay. By court order, Arrows has to stop running their FA1-DN9s and to return to Shadow a load of parts. And Southgate had to sit down and design a real Arrows in a hurry.

The court order was certainly the worst moment in a difficult season in a number of ways. Formula One scarcely greeted them with open arms. The way in which Oliver, Southgate and Rees had left Nichols put other teams' teeth on edge, and they weren't about to welcome the new team into Formula One. "It's true", says Oliver, "Formula One people in general were somewhat upset at the way things turned out. They've got the right to their own opinions. There was also the fact that we were a young, agressive team who had started with virtually nothing. And that, sometimes, is not appreciated by society." Riccardo Patrese was in a position to win the South African Grand Prix, but if he had succeeded, not everyone would have been happy

RICCARDO'S BEHAVIOUR: EXCUSES

Riccardo Patrese's attitude did nothing to improve things. The young Italian was determined, perhaps too much so. The way in which he blocked Ronnie Peterson in the Swedish Grand Prix, and then, even worse, the Monza drama cast doubts about Riccardo, to such an extent that the Italian was barred from racing in the States at the end of the year. But Oliver has always been confident of his number one driver The season was just as difficult for him. He's a young driver, and at a time when he should have been developing as a driver, he had a bad season. But he believes in us. He gets on well with Alan Rees. He may seem agressive, but within the team he seems to be blossoming, working with Alan who has tremendous experience in bringing on young drivers. Riccardo is now good enough to be a fine number one driver. We know that when we can give him a car capable of winning, he'll

Even though they lost the court case with Shadow, even though they had problems making the hastily-built replacement car competitive, and in spite of Riccardo Patrese's problems the team got through their first year. In fact they started their second year in good spirits. thanks to the young determination of the team as a whole. At least, that's Oliver's explanation. "When we started we were really hanging on by our finger-nails. It was a difficult time. Franco Ambrosio certainly helped us out on the financial side, but I had to put in some of my own money. We've all had confidence in the team, and we've come through that difficult period thanks to our collective determination. Tony Southgate, Alan Rees and I founded Arrows because we believed that jointly our personalities were complimentary. At Shadow I could see that our respective talents combined to be fruitful. By working together, and not against one another as we were at Shadow, each person's ability could be used to the full, and this should reap its rewards. We didn't win a Grand Prix last year, but our knowledge and determination helped us deal with the many difficulties we had.

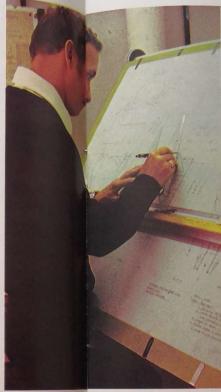
SOUTHGATE'S BOLDNESS

Despite their lack of racing, the Arrows team headed by their experienced directors, proved that they were a serious team. Two cars were entered in Grands Prix throughout the season, once Rolf Stommelen had been called in to replace the unfortunate Gunnar Nilsson

Their determination now is as great as ever. They proved to have succeeded in running reliably. All they need now are results. The potential of the new Arrows A2 however is still unknown. Southgate's new design is not along Chapman lines. Even so, the Arrows A2 is just as sophisticated in its technical innovation. According to Jackie Oliver, they've taken a calculated risk. "Tony, Alan and I talked about it for a long time. We had two roads open to us: One was to copy a car that was among the most competitive, as Tyrrell, Ligier and Williams have done-although the latter two to a lesser degree. Or we could build a car with original thinking involved, learnt from development work, test sessions and wind tunnel studies. We didn't chose the former, if we had done so, we would have been at the same stage as everyone else. So we chose the second, and if that works, we'll be ahead of the rest. We've gambled. We've had to do it all by ourselves, we couldn't copy other cars. Of course, it's taken us a lot longer, but it could pay off."

Jackie Oliver has left his driving days behing. His new job takes up all his time. "It's a lot more difficult to be a team manager than a driver", he

Dave Wass, Tony Southgate's assistant: another ex-Shadow man.





reckons. "You have to take many things into account. You have to concentrate all the time. A driver has to concentrate very hard when he's driving, but then he's off: Monday, Tuesday and Wednesday are for relaxing. Many people thing they can be a team manager, but in the end, it's complicated." He things he's capable of doing a good job, but not in excessive proportions. "If I can do a tenth of what they've done at Lotus, I shall be the happiest of men."

Jackie Oliver: "to succeed in doing a tenth of what Lotus have done..."



The Arrows workshop at icecream time. The two Arrows A2 were on the road for Silverstone an hour later. from race to race"



HOCKENHEIM IN

1 - 2 — The good old Ford-Cosworth, Last year it was the Lotus that brought home its results, this year it's the Williams.

3 — Emerson Fittipaldi's Copersucar F6 appeared in considerably modified form but there was no positive result.

4 — What progress Renault have made in a year.

5 — A puncture caused Riccardo Patrese's retirement

6 — McLaren M29 wheel bearing

7 — Jody Scheckter drove a prudent race on a circuit that hardly favoured the Ferrari T4.

8 — Jones was in front from the start, Laffite tried to stay in front of Jabouille

9 — The first five into the stadium: Jones, Jabouille, Laffite, Scheckter and Regazzoni.

10 — Jacky Ickx got a tow from Jacques Laffite during practice and set his fastest time.

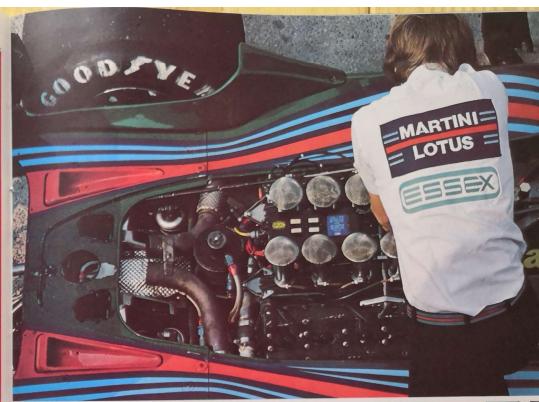
11 — Geoff Lees's first Grand Prix.

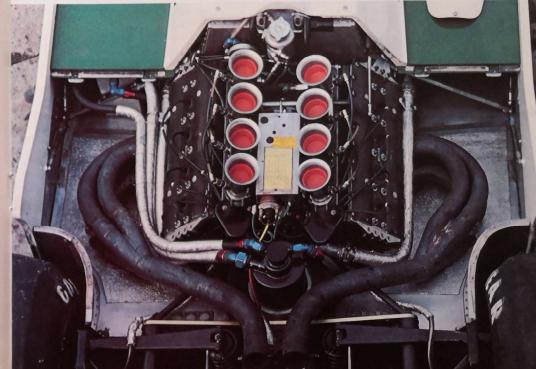
12 — Jean-Pierre Jabouille was on pole position, but he made a small mistake in the race 13 — Nelson Piquet so nearly took his first World Championship points

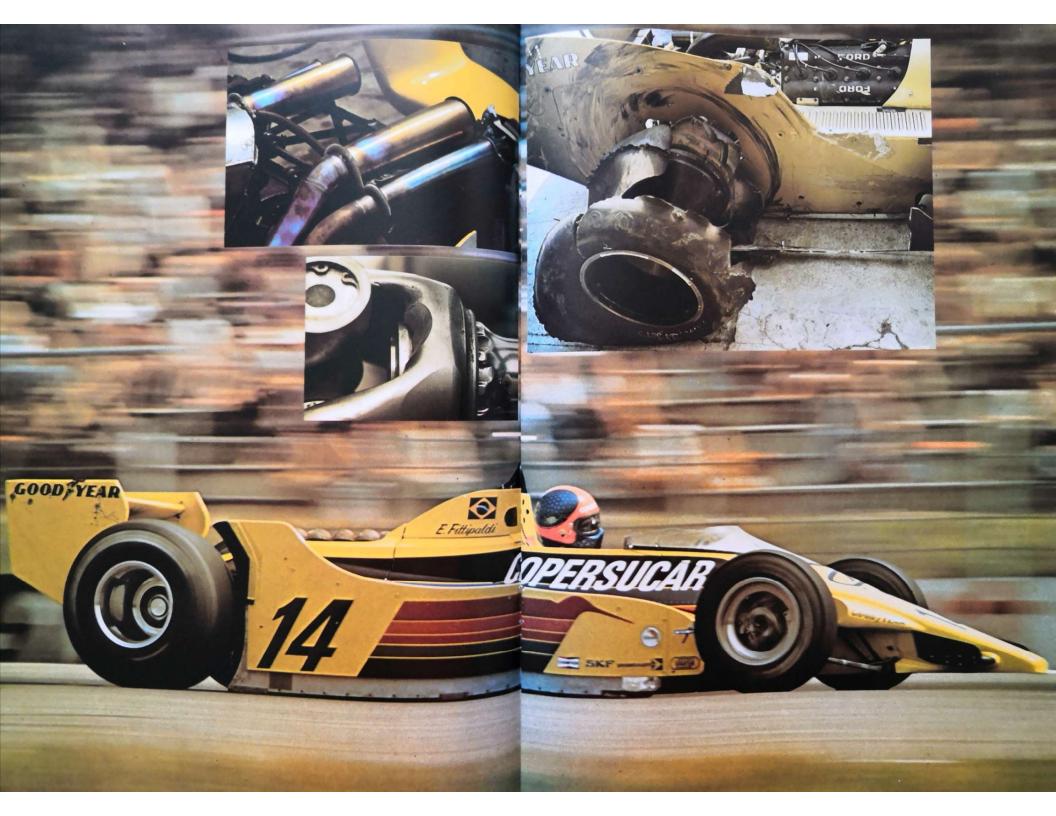
14 — Jochen Mass took sixth place: the first point won by the new Arrows

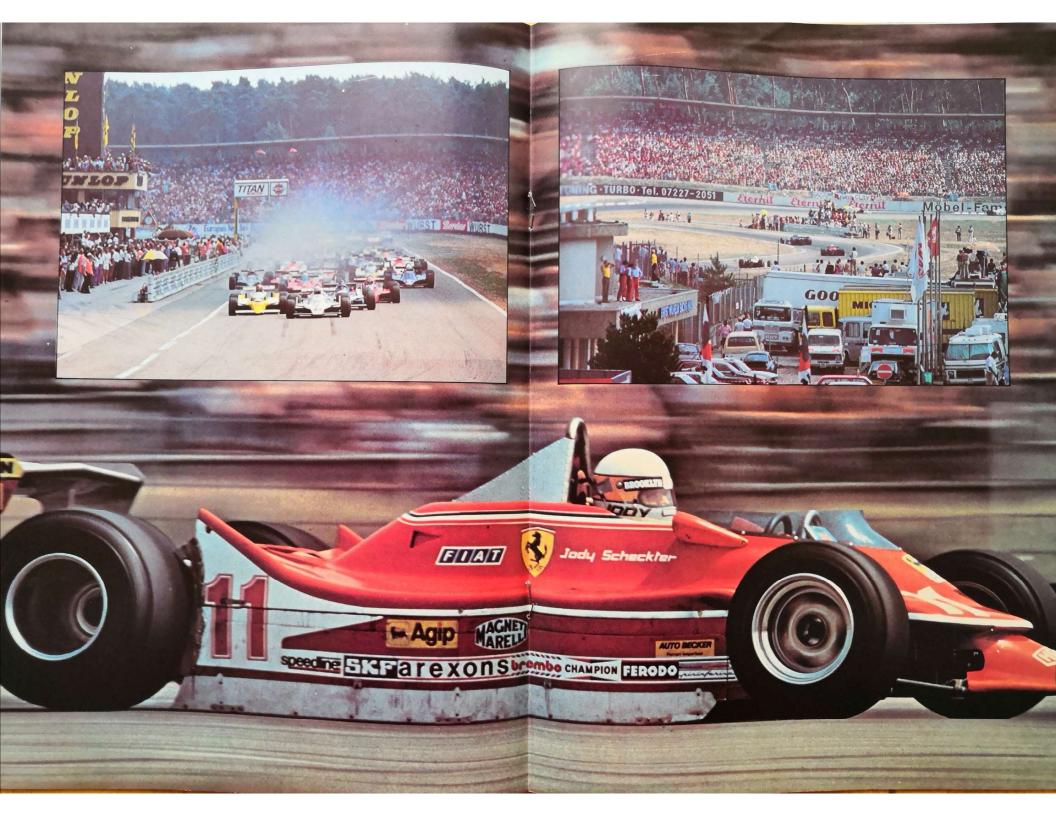
15 — There's breath of fresh air in the Mc Laren team since the M29 appeared. Waston, Tambay and Alistair Calwell have renewed hope.















from race to race»



She's been around the paddock getting herself photographed with each driver. And attracted a lot of attention.

You'd almost pray for rain if you had an umbrella and those two were walking by. Hans Stuck doesn't need rain.

Reception areas are more and more original. This is Regie Renault's UFO at Hockenheim, where Renault also had a round of their European Renault 5 championship.



Some are more equal than others in the Brabham pit. Working journalists are thrown out, but hangers-on are allowed in.

Collinenia



Jan Lammers jokes even when he's asleep. He may be having his siesta but Jan is as amusing as ever.



Two alternate forms of transport in the land of Mercedes, BMWs and Porches.



Wilson Fittipaldi and MV Augusta: a moment of relaxation during a difficult weekend in the Copersucar camp.



Three Procar wins for Niki Lauda. It brings some consolation for his lack of Formula One form, and a load of dollars.



INTERVIEW

LAFFITE: « WINNING, THAT'S SOMETHING ELSE »

The wins in South America did nothing to change Jacques Laffite. He was the same fellow: a happy hell-raiser loving life. Then came the slim period for Ligier: the Ferraris got on top in South Africa and at Long Beach. Even though Ligier bounced back a little, Laffite was a little less self-assured. By getting over this little personal crisis, Jacques has won his third victory of the season. He's taken Ligier's second crisis period since the French Grand Prix in a calm way. He may have lost the World Championship, but he's mature enough to realise that he'll win it one day.

by Eric Bhat

Guy Ligier was very upset in Dijon, do you think he was right?

No, not at all, he was very wrong. He was creating a stink over nothing. The car didn't work, that's all there was to it. But it wasn't Ducarouge's fault, nor the team's. They'd all worked really hard between the Monaco and French Grands Prix. I'd done six whole days of testing. On the Saturday the week before the Grand Prix I set competitive times. And them we couldn't get near them. There was no point in getting upset. But I know Guy. If he gets annoyed, it's because he's even more disappointed than we are; it's forgotten the next day. I know his tempera-

Neither Patrick nor yourself won at Zolder nor at Monaco, but the cars

went well. Since then, you haven't been at the head of the field. What's happened?

They said we were finished after Long Beach. But Patrick won at Jarama, and we might have won again both at Zolder and Monaco where the cars were faster than the Ferraris. So what happened between Monaco and Dijon? That's one of those little mysteries in racing. There's something wrong, possible nothing very big. Personnally I think it's an aerodynamic problem. We've got to find out what's wrong though, all is not lost.

Do you think that the team are floundering at the moment?

No, no, we're not floundering at all. Let's say that to try and win the World Championship is a tremendous



task, and it might aven be too big for a little team like ours. If we want to do four days testing between two Grands Prix, it imposes an enormous load on the work force, because the cars have to be maintained at the same time. The mechanics are the same at races and for testing. They do a lot of work. Perhaps they've done rather too much since Monaco, that may be true. But they shouldn't be held responsible.

Do you mean to say that you've done too much in a bad se?

Not wholly in a bad sense. We tried a lot of different things. I don't think we had enough feedback in order to analyse the results, because I was always leaving one circuit in order to go straight to another. May be we got rather tiee up trying to do too much.

But despite this, do you think that you still have a chance of winning the World Championship?

Yes, they're about the same as after Monaco, that's a 40 per cent chance for me, and a 60 per cent for Scheckter. I don't see that anyone can catch us except Villeneuve perhaps.

Has the atmosphere changed within the team? You started the team in a magnificant and encouraging way. Have the recent disappointments affected the team as a whole?

No, but I do believe that everyone is almost trying to do too much. I do my best, the mechanics seem to do better. We've got to work now as we worked before, that's to say, normally. At the moment it's hard to maintain a rhythm. There's no point in trying too hard, and then doubling the work, and then trebling it: that's just making more work, more worry, too much anxiety. It's better to be calm and that's how you win races.

This is the first year that you've been in a position to win the World Championship. Does this fact impose more strain?

Yes, naturally. It's a particularly difficult situation, it's just that it's one that's new and one which we're not prepared for. I'm learning! I'm more prepared to be World Champion this year than I was last. But if I'm World Champion at the end of the year, it will be more thanks to luck. I don't deserve it this year really. And in terms of a driver, I'm not really ready to be World Champion. It's a little too soon perhaps. This year, Scheckter is the man who is destined to be World Champion, and I think he should be. Certainly I'm still in there with a chance for the World Championship thanks to my early season results, but it's going to be difficult for me.

What do you think you're lacking? Maturity, the actual awareness than I could be World Champion. I didn't think about it before, so perhaps it's come my way rather too quickly.

Even after four seasons in Formula The Laffites and

Yes. You get that kind of experience on the track when you're at the front, Cabourg: sport is not when you've set 15th fastest time. When you're 15th, you're learning about technicalities, circuits and-how the team works. But you don't think either during or between races that you could be World Champion. You must know how to rest and to recuperate. That's the sort of thing you teach yourself. I'm very happy to be learning them, because that way I'm a better driver.

But what if you never find another car with the potential of winning the World Championship for you, won't you have missed the boat?

Not at all. I've never missed an opportunity in my life. Whenever something's come up. I've always seized it. I believe that I'll be World Champion one day. This year it was somewhat unexpected. I'm going to fight all the way. But I'm sure that I'll have another opportunity in the years

Listening to you talk, I've the feeling that you've almost resigned this year. Don't you think you're going to win?

think I'm going to win, but only 40 per cent of me thinks that. I can't really believe that I'm going to win. I think it's a really difficult thing to win, especially since Patrick's accident. I wasn't really ready for the job. When Patrick was in the team, I relied on him. Now I'm all alone. If I'd been alone at the beginning of the season, I would have thought differently.

You relied on him, even though he was a competitor.

Yes, it was important to count on him. I knew he was there. If I didn't win, the team could always win with him. That's what happened at Madrid. Now that Patrick isn't in the team any longer, I have to take the lead of the series again knowing that the team's chances in the series rest solely on me. I've got to get used to that fact again. I'm not a pessimist, but I think that it will be very difficult for us to win the World Championship this year. It's too big a gamble to say that I'm going to win this year... so I don't say it.

It must be the first time in your career that you've said: I'm not going to win.

Yes, but Formula One is something different. There are too many factors involved. The more you think that you can overcome those factors, the more one realises how difficult they are to overcome. I don't think that we can overcome them all. I would like to be able to say one day: tomorrow I'll win. But for the moment, that's impossible. My car isn't capable of winning, but I think I am. Actually winning Grands Prix may tire the mind. Even though one may be in complete some of the finer possession of one's faculties, one

An enthusiastic teacher, an attentive pupil: Laffite tries to teach his points of golf.

holiday at primary.







«from race to race»

might lose a certain something without knowing it every time one wins a Grand Prix. I probably set up my car badly for Dijon and Silverstone, quite simply for reasons that I'm ignoring and which I'll analyse one day. I'll know the reason in two months, maybe one month or in eight

You've never been so well placed in the championship. Has this been your best season ever, or even your worst?

It's certainly my best season because I've had the best results. Having said that, and that I count this season as good on the competitive side too. find it worse in terms of publicity. The more well known you are, the more pressure here is on your freedom. I'm learning a new job really. The people who just come up to you, the people you meet in the street, all that really inconveniences you as much as anything else. I's not easy to resist to pressures. But that's something I'm learning about now. It's tremendous: it's moulding me into a World Champion. And that may be for this year, next year, or even two year's time. But I'll be ready. If the occasion presents itself, I shall be absolutely ready.

Was your early success and the potential of being World Champion weighing heavily?

I found it apressure at the time, but now it's better. I had a difficult time

An afternoon with Laffite: out of breath

"The boys are playing ten- brothers-in-law. Jacques tries to nis, », Bernadette Laffite speaking show them how good he is. He of her husband and brother-inlaw. Jacques and Jean-Pierre are already into a busy afternoon, like those that they've enjoyed so many times before. This day they're staying in a villa at Cabourg in Normandy that they've rented for July.

would have a hard time following Jacques. He simply doesn't stop playing a year. They're going all day. He lives for the day, and to be saying: what an ace uses every minute of that day.

Tennis is followed by a hurried thought of it than the shot itself lunch, and then it's down to the It's six 'o' clock. The afternoon is beach for a quickrunwith Berna- still young. Riding or tennis? dette and the Jabouille couple. Is They could always go the tennis that a kid playing with a kite? It tempts Jacques. The child is approached, the controls pass to tennis. But where's Jacques, the Ligier driver. He quickly He's gone down to the beach learns how to handle the strings. The red plastic bit at the end, calm and well handled until the the hands of its young owner, starts to spin boldly, its long tail brushing Bernadette and Genevieve, the sisters, who react with horror as the kite dives down on them... when Jean-Pierre isn't the

Back to the villa. A phone call from Vichy to organise the travel arrangements for the next Grand Prix, and then the two drivers are off to play golf. Miles of walking from one hole to the next. Jean-Pierre scowls. He's only starting to play and his mistakes upset him. « It's not too good, " he says, " my sides have been aching since Dijon. » And again, « I messed up that shot because Bernard (our photographer) was behind me. » But Jacques ignores his complaints, and continues to advise his brother-in-law with patience and enthusiasm.

At the end of the course they meet the two girls: bows all round, real gentlemen these busy. Jacques never tires.

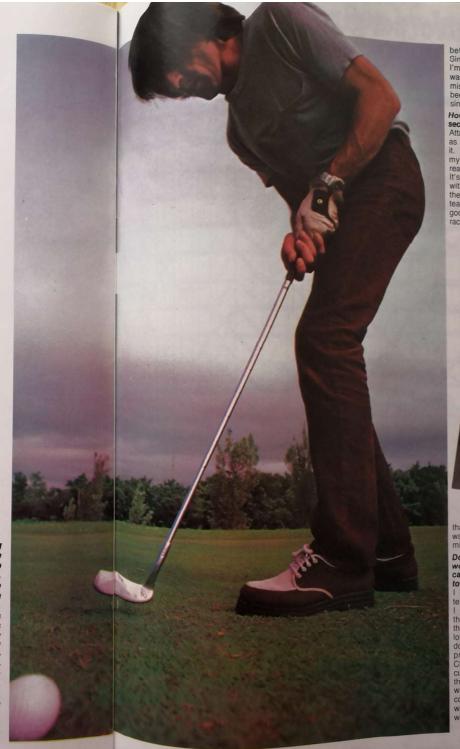
satisfied. The ladies don't return. Anyone else but Jean-Pierre laughs. « l've never hit such a good shot, and I've only been Laffite is. » He's prouder of the change and theoretically off to first one to go out after him, breaks the cup. « That's typical Jacques, » says Jean-Pierre, at his brother-in-law's careles-

And now here are Jean-Pierre and Jacques once again against one another, on a court this time, each teamed up with a nephew. While hitting the ball well, Jacques doesn't stop talking, commentating on the match, advising his young partner, congratulating him or encouraging him to follow the ball.

They leave the court to do an interview in a tape recorder, in the shadow of a tree; Jacque's cool and alert. And there they go again for another set. We weren't there the next day to see for ourselves, but the programme for the day was certain to be as

concentrates, swings and puts the ball at least a yard from the hole... from a distance of a least a hundred yards, and then it was in a bunker. Quite an achievement « Good ... » said Jacques After they've gone, Jacques court on horse-back. Tea-time, with Camille, his daughter who is still learning to walk. And as his tea-cup is in the way, Jacques leaves it on the gate. And the Jean-Pierre opens the gate and half-annoyed and yet half-amused

The art of mixing physical exercise with concentration, and equally the art of living a balanced life. Jacques plays golf and tennis again now after a brief rest. "I stopped in order to let my wrist get better, but I feel better when I'm living a healthy and active life without restrictions."



between Long Beach and Zolder. Since Zolder, things have been OK. I'm clearer, more lucid. I learn't what was wrong and that's cleared up a misunderstanding within myself. I've been feeling a lot better in myself since Zolder.

How did you intend to start the second half of the season?

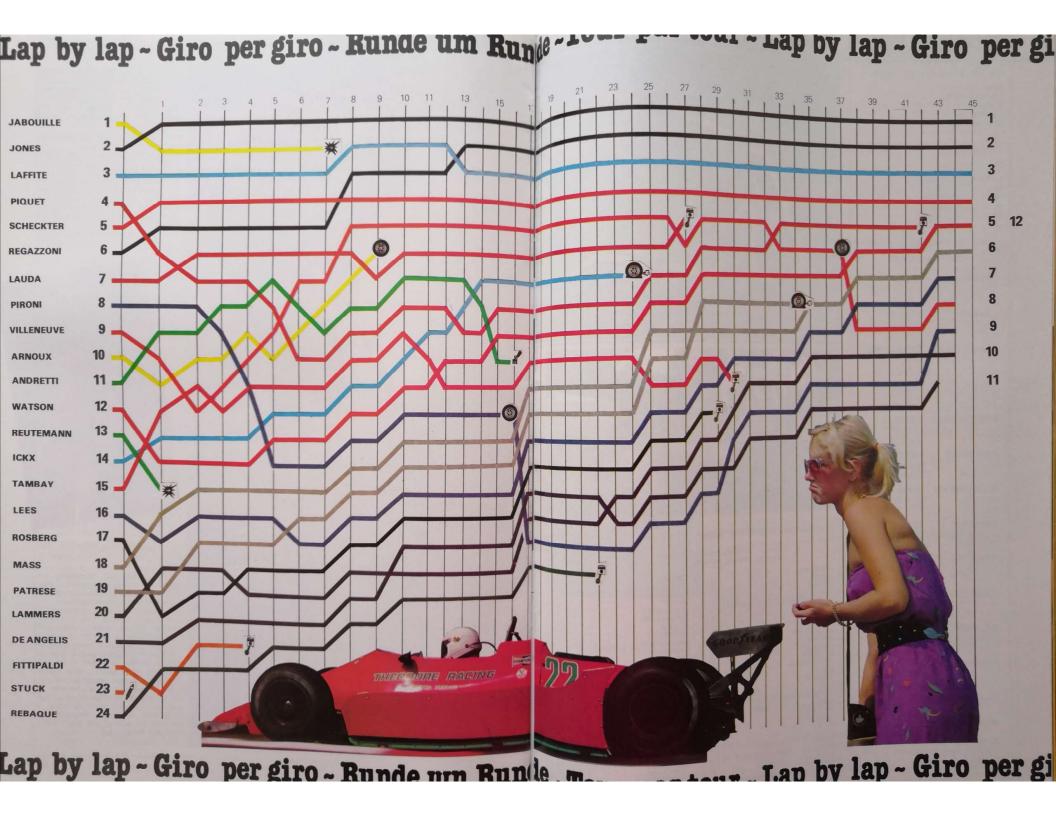
Attacking. And winning as many races as possible if the car was capable of it. And at least, I wanted to match my races with Scheckter's. But I really hope to win some 'more races. It's going to be harder and harder with the Williams and Renaults up there. But I'm easy about it. And the team has shown itself to be a really good team. I've proved that I'm a race winner. All I say to myself is



that I won't be World Champion. That way I'm calmer, I've more peace of

Do you think that in saying « I won't be World Champion » you can still rustle up the enthusiasm to try and become champion?

have that enthusiasm, all the time. I test for days on end. I do everything can to win the series. I understand the Championship system. I accept the basic idea that I have to be a long way from home all the time to do tyre testing. I'm used to all the pressures. But winning the World Championship isn't nearly as pre-occupying now as it was at the start of the season, which after all is normal when you win two races in a row. I could have said, OK, I'm going to win them all. Instead I've learnt that I won't win them all.



Hockenheim statistics

GERMAN GRAND PRIX

Date: July 29, 1979 Circuit lenght: 4 219 miles Distance: 45 laps, 189 766 miles

Conditions: hot and sunny Attendance: 100,000 spectators

THE RECORD

last five races

1974: Regazzoni (Ferrari) 1975: Reutemann (Brabham) 1976: Hunt (McLaren)

1977: Lauda (Ferrari) 1978: Andretti (Lotus)

STARTING GRID

JABOUILLE Renault RS 11

Williams FW07 1'48'48 1'48'75

LAFFITE Ligier JS 11 1'49"43

Brabham Alfa BT 48 1'49"50

SCHECKTER Ferrari 312 T4 1'50''00

REGAZZONI 1'50'12

PIQUET

LAUDA Brabham Alfa BT 48 Tyrrell 009 1.50.37 1.50.40

VILLENEUVE Ferrari 312 T4 1'50'41

ARNOUX Renault RS 12 1.50.48

ANDRETTI Lotus 79 1'50'68

WATSON McLaren M 29 1'50'86

LEES

MASS

Arrows A 2 1 52 74

1.53.59

1.54.01

1'55"86

REBAQUE

LAMMERS

FITTIPALDI

Copersucar F6

REUTEMANN Lotus 79 1'50"94

ICKX Ligier JS 11 1.51.07

TAMBAY McLaren M29 1'51'47

ROSBERG Wolf WR8

PATRESE Arrows A2 1'52''93

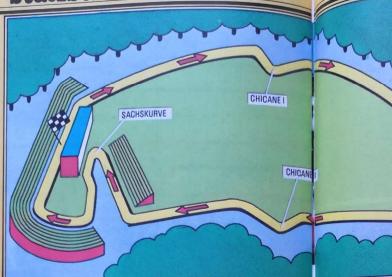
DE ANGELIS

Shadow DN 9 B

STÜCK ATS D1/003 1.54.47

NON QUALIFIED:

GAILLARD (ENSIGN MN 179) 1'55"95 and MERZARIO (MER-ZARIO A/4) 2'01'84.





UNOFFICIAL PRACTICE TIMES OFFIC	IAL P	RACTICE	TIME
---------------------------------	-------	---------	------

	Friday morning	Saturday morning	Sunday morning		1st session	2cnd session
JABOUILLE JONES LAFFITE PIOUET SCHECKTER REGAZZONI LAUDA PIRONI VILLENEUVE ARNOUX ANDRETTI WATSON REUTEMANN ICKX TAMBAY LEES ROSBERG MASE PATRESE LAMMERS DE ANGELIS		morning 1 49 57 1 49 77 1 50 44 1 53 19 1 52 61 1 52 87 1 54 10 1 53 32 1 51 31 1 54 02 1 52 68 1 52 51 1 55 28 1 52 33 1 52 20 1 53 38 1 52 30	morning	JABOUILLE JONES LAFFITE PIQUET SCHECKTER REGAZZONI LAUDA PIRONI VILLENEUVE ARNOUX ANDRETTI WATSON REUTEMANN ICKX TAMBAY LEES ROSBERG MASS PATRESE LAMMERS	\$88\$ion 1'48"48 1'49"96 1'50'26 1'50'90 1'50'93 1'50'76 1'50'76 1'50'76 1'50'73 1'50'76 1'50'73 1'50'76 1'50'73 1'50'76 1'50'	\$\text{Session}\$ 1'49"75 1'48"75 1'49"43 1'49"60 1'50"12 1'50"40 1'50"40 1'50"68 1'50"68 1'50"68 1'50"68 1'50"61 1'50"15 1'47 1'51"50"15 1'47 1'51"50"15 1'47 1'51"50"15 1'47 1'51"50"15 1'47 1'51"50"15 1'47 1'51"50"15 1'47 1'51"50"15 1'47 1'51"50"15 1'47 1'51"50"15 1'47 1'51"50"15 1'47 1'51"50"15 1'47 1'51"50"15 1'47 1'51"50"15 1'47 1'51"50"15 1'47 1'51"50"15 1'48 1'52"93 1'53"18
STÜCK REBAQUE GAILLARD MERZARIO	1 56 30 1 56 26 1 56 10 1 56 82	1.54.48	1 58 04	DE ANGELIS FITTIPALDI STUCK REBAQUE GAILLARD MERZARIO	1.54.86 1.54.01 1.56.58 1.56.25 1.57.06	1.53°,73 1.54°,14 1.54°,47 1.55°,86 1.55°,95 2.01°,84

PIT STOPS AND RETIREMENTS

Stuck: retired 1st lap, suspension broken Reutemann: retired 2cnd lap, accident Fittipaldi: retired 4th lap, engine Jabouille: retired 8th lap, spun and stalled

Jabouille: retired 8th lap, spun and stalled
Arnoux: retired 16th lap, puncture
Andretti; retired 17th lap, broken driveshaft
Rebaque: stops on 14th, 19th laps, retired 22cnd lap, engine
Pironi: stopped 16th lap, check front track, change front tyres
lock: retired 25th lap, puncture, rear suspension damage
Lauda: retired 25th lap, engine
Rosberg: retired 30th lap, engine
Tambay: retired 30th lap, engine

Tambay: retired 30th lap, engine

Patrese: retired 35th lap, puncture
Villeneuve: stopped 36th lap, changed tyres and rear wing

Piquet: retired 43rd lap, engine

PROVISIONAL WORLD CHAMPIONSHIP CLASSIFICATION (after the Argentine, Brazilian, South African, USA West, Spanish, Belgian Monaco, French, British and German GPs).

1. Scheckter 35 pts 2. Laffite 28 pts 3. Villeneuve 26 pts 4. Regazzoni 22 pts 5. Depaille and Reutemann 20 pts 7. Jones 16 pts 8. Jarier and Watson 13 pts 10. Andretti 12 pts 11. Arnoux 10 pts 12. Jabouille 9 pts 13. Pironi 8 pts 14. Patrese and Mass 2 pts 16. Fittipaldi, Lauda and Ickx, 1 pt

CONSTRUCTORS CUP

1. Ferrari 65 pts 2. Ligier 51 pts 3. Williams 38 pts 4. Lotus 37 pts 5. Tyrrell 21 pts 6. Renault 19 pts 7. McLaren 13 pts 8. Arrows 4 pts 9. Copersucar and Brabham 1 pt

RESULTS

1 h 24'48"83, 134 273 mph 2 91 behind Williams FW07 18 39 behind 31 20 behind Ligier JS 11 Ferrari 312 T4 3. Laffite 4. Scheckter 1:37"80 behind McLaren M 29 5. Watson one lap behind 6. Mass one lap behind Tyrrell 009 7. Lees one lap behind Ferrari 312 T4 Tyrrell 009 8. Villeneuve one lap behind 9. Pironi Shadow DN 9B one lap behind 10. Lammers 11. De Angelis two laps behind Shadow DN 9B three laps behind Brabham BT 48 12. Piquet

Fastest lap: Villeneuve, 1'51"89, 135 707 mph, record

THEIR FASTEST LAPS

OSTKURVE

JONES	1.51.97	(15th lap)
REGAZZON	1 1 52 01	(38th lap)
LAFFITE	1.6001	(34th lap)
SCHECKTE	R 1'52"48	(9th lap)
WATSON	1'53"83	(16th lap)
MASS	1'54"61	(34th lap
LEES	1'54"80	(41th lap
VILLENEU	VE 1'51"89	(40th lap
, INUNI	ALT ALLES	(8th lap
LAMMERS	1.56.37	(38th lap
DE ANGEL PIQUET	IS 1'56"51	(13th lap
LIGUET	1'52"72	(35th lap
	THE RESERVE TO SHARE THE PARTY OF THE PARTY	

subscription coupon

to be cut our or copied

Name

Christian name

I Address

I I wish to subscribe for one year: £12 I enclose my remittance by cheque □ or money order

1 1 to:

SNEP - Service Abonnements 1 7, rue de Lille, 75007 Paris - France

L Foreign subscription rates on request

Hockenheim statistics

GERMAN GRAND PRIX

Date: July 29, 1979 Circuit lenght: 4 219 miles Distance: 45 laps, 189 766 miles Conditions: hot and sunny Attendance: 100,000 spectators

THE RECORD

last five races

1974: Regazzoni (Ferrari) 1975: Reutemann (Brabham)

1976: Hunt (McLaren) 1977: Lauda (Ferrari) 1978: Andretti (Lotus)

STARTING GRID

JABOUILLE Renault RS 11

JONES Williams FW07 1'48'48 1 48 75

LAFFITE Ligier JS 11 1'49'43

PIQUET Brabham Alfa BT 48 1'49"50

SCHECKTER Ferran 312 T4

REGAZZONI

LAUDA

1'50'12

PIRONI Brabham Alfa BT 48 Tyrrell 009 1'50'37 1.50.40

VILLENEUVE Ferrari 312 T4 1'50'41

ARNOUX Renault RS 12 1 50 48

ANDRETTI Lotus 79

WATSON McLaren M 29

1'50'68 REUTEMANN Lotus 79

1'50'86 ICKX Ligier JS 11

TAMBAY

LEES McLaren M29 1'51'47

ROSBERG 1'52'01

MASS Arrows A 2 1 52 74

PATRESE Arrows A2

LAMMERS Shadow DN9 B 1.53.59

DE ANGELIS Shadow DN 9 B

FITTIPALDI Copersucar F6 1 54 01

STÜCK ATS D1/003 1.54.47

REBAQUE

PI SCRELAR PI VI AFRIC TALERON PA LA DE FI ST REGAM

NON QUALIFIED:

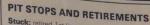
GAILLARD (ENSIGN MN 179) 1'55"95 and MERZARIO (MER-ZARIO A/4) 2'01'84.





UNOFFICIAL PRACTICE TIMES OFFICIAL PRACTICE TIME

	Friday morning	Saturday morning	Sunday morning		1st session	2cnd session	
ABOUILLE DNES AFFITE QUET CHECKTER GGAZZONI AUDA RONI LLENEUVE RNOUX NDRETTI ATSON EUTEMANN KX AMBAY EES DSBERG ASS ATRESE AMMERS E ANGELIS TTIPALDI TÜCK EBAQUE ALLARD	150 45 151 49 150 94 151 27 151 27 151 27 151 24 152 30 154 94 153 38 154 94 155 50 155 10 156 26	1 49 57 1 49 77 1 50 49 1 52 61 1 52 61 1 52 67 1 54 10 1 53 32 1 54 02 1 52 68 1 52 68 1 52 68 1 52 33 1 54 02 1 53 38 1 52 33 1 54 29 1 53 74 1 54 29 1 53 74 1 54 54	1 51 55 1 51 62 1 53 10 1 53 36 1 51 24 1 54 17 1 54 17 1 53 04 1 52 73 1 54 77 1 54 77 1 57 88 1 59 07 1 54 77 1 55 61 1 55 57 1 55 39 1 57 97	JABOUILLE JONES LAFFITE PIQUET SCHECKTER REGAZZONI LAUDA PIRONI VILLENEUVE ARNOUX ANDRETTI WATSON REUTEMANN ICKX TAMBAY LEES ROSBERG MASS PATRESE LAMMERS DE ANGELIS FITTIPALDI STUCK REBAQUE GAILLARD	session 1'48' 48 1'49' 94 1'50' 26 1'50' 90 1'50' 93 1'50' 76 1'50' 73 1'50' 76 1'50' 73 1'50' 76 1'50' 73 1'50' 76 1'50' 73 1'50' 76 1'51' 17 1'50' 94 1'54' 10 1'52' 93 1'54' 12 1'53' 83 1'56' 92 1'54' 86 1'54' 91 1'56' 92 1'54' 86 1'54' 91 1'56' 98 1'56' 95	1'49'75 1'48'75 1'49'50 1'50'00 1'50'03 1'50'41	
	-			MERZARIO		2'01"84	



Stuck: retired 1st lap, suspension broken Reutemann: retired 2cnd lap, accident Fittipaldi: retired 4th lap, engine Jabouille: retired 8th lap, spun and stalled Arnoux: retired 16th lap, puncture.
Andretti: retired 17th lap, broken driveshaft

Rebaque: stops on 14th, 19th laps, retired 22cnd lap, engine Pironi: stopped 16th lap, check front track, change front tyres Lext: retured 25th lap, engine
Rosberg: retired 30th lap, engine
Rosberg: retired 30th lap, engine

Tambay: retired 30th lap, engine Patrese: retired 35th lap, puncture.

Villeneuve: stopped 36th lap, changed tyres and rear wing

Piquet: retired 43rd lap, engine.

PROVISIONAL WORLD CHAMPIONSHIP CLASSIFICATION

(after the Argentine, Brazilian, South African, USA West, Spanish, Belgian, Monaco, French, British and German GPs).

Scheckter 35 pts
 Laffite 28 pts
 Villeneuve 26 pts
 Regazzoni 22 pts
 Depailler and Reutemann 20 pts
 Jones 16 pts
 Jarier and Watson 13 pts
 Andretti 12 pts
 Armoux 10 pts
 Jabouille 9 pts
 Pironi 8 pts
 Patrese and Mass 2 pts
 Pts

CONSTRUCTORS CUP

1. Ferran 65 pts 2. Ligier 51 pts 3. Williams 38 pts 4. Lotus 37 pts 5. Tyrrell 21 pts 6. Renault 19 pts 7. McLaren 13 pts 8. Arrows 4 pts 9. Copersucar and Brabham 1 pt

RESULTS

1 h 24 48 83, 134, 273 mph 2 91 behind 2. Regazzoni 18" 39 behind Ligier JS 11 3. Laffite 31"20 behind 1"37"80 behind Ferran 312 T4 4. Scheckter McLaren M 29 5. Watson one lap behind Arrows A2 6. Mass one lap behind Tyrrell 009 7 Lees Ferrari 312 T4 one lap behind 8. Villeneuve one lap behind 9 Pironi one lap behind Shadow DN 9B two laps behind 10. Lammers Shadow DN 9B 11. De Angelis three laps behind Brabham BT 48 12. Piquet

Fastest lap: Villeneuve, 1'51"89, 135 707 mph, record

THEIR FASTEST LAPS

OSTKURVE

JONES 1'51"97 (15th lap) REGAZZONI 1'52"01 (38th lap) LAFFITE 1.52.34 (34th lap) SCHECKTER 1:52-48 (9th lap WATSON 1'53'83 (16th lap) MASS 1'54"61 (34th lap LEES 1'54"80 (41th lap VILLENEUVE 1:51:89 (40th lap PIRONI 1'54"56 (8th lap LAMMERS 1.56.37 (38th lap DE ANGELIS 1'56"51 (13th lag PIQUET 1.52.72 (35th lag

subscription coupon to be cut our or copied

Name

Christian name

1 Address

I wish to subscribe for one year: £12 I l enclose my remittance by cheque
or money order

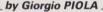
1 □ to: **SNEP - Service Abonnements** 1 7, rue de Lille, 75007 Paris - France L Foreign subscription rates on request

COPERSUCAR F6A: WAITING FOR THE F7

The Fly Studio duo (Caliri on the left, Marmiroli in the middle) with Emerson Fittipaldi: a two year contract.

Emerson Fittipaldi won the World Championship in 1974, but he's never had the same success since. This year he wanted to get his own back, and reckoned that he had done it right. Everyone saw photographs of his revolutionary Copersucar F6 before the Argentine Grand Prix. The car had been designed by Ralph Bellamy who had been working with Lotus when they brought out the 78. But it was soon clear that the F6 was a complete failure. An 'A' version of the F6 appeared at Hockenheim, giving it a second chance of success.

The Copersucar
F6A side pods are
the biggest of all
those fitted to
Ford-engined cars.



The new Copersucar, nicknamed Concorde because of its strange nose section, made its first race appearance at Interlagos for the Brazilian Grand Prix and didn't show well there. It was suspected that it suffered merely teething trouble. But is was obvious at the next race, the South African Grand Prix, that the problems were a lot more serious.

The car was quite a lot different to other wing cars. Its side pods were not of classic design, starting much further back. Ralph Bellamy's intention was to make the car's pressure centre further back than normal

But when Emerson spoke of his new car's handling, he frequently remarked: "I don't seem to be able to notice any ground effect on the F6 at all." He decided to retire the car after the Spanish Grand Prix so that it could be completely restudied. He got Fly Studio in Italy to do the work.

The F6 was modified by designers Caliri and Marmiroli (both ex-Ferrari), designated the F6A and appeared for the first time at Hockenheim.

Fly Studio did a good job last year when they completely redesigned the Copersucar F5 originally designed by Dave Baldwin (ex-Ensign). But Fittipaldi was disappointed with the new car.

"We've virtually changed everything on the F6 in two months," explained Calin. "T've been concerned with aerodynamics, I've designed completely new bodywork. We've adopted a conventional style because we didn't have much time. Richard Divila joined us in Modena and Marmiroli and he have designed new front and rear suspension. We've also modified the cooling system. Before, the radiators

were big, but they didn't do the job. We got better results using small radiators but better positioned."

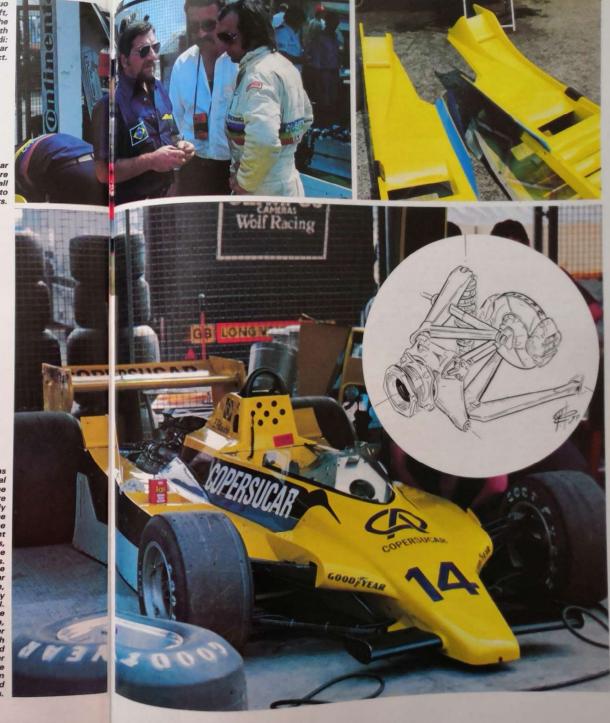
The F6A wasn't very competitive during the first practice session at Hocken-heim. "We've already had one test session at Silverstone." said Caliri.

"We hadn't modify the chassis before then, but it wasn't stiff enough, so we fitted some strengthening tubes. Perhaps that wasn't sufficient. When we go back to England, we'll study the stiffness again and also put the car through a wind tunnel test. We've also had problems with skirts. I haven't been to a Grand Prix since last year, and Formula One has developped a lot since then."

Emerson did a lot of aerodynamic testing at Hockenheim. "When the skirts work," explained Caliri, "we don't need the front nose fins. But the skirts don't often work. First of all we tried a normal sized fin, and then a smaller one."

Emerson Fittipaldi's association with Fly Studio isn't at an end. Caliri has signed a two year contract to work with Richard Divila and Dave Luff. The final result should be a completely new Copersucar designed by Fly Studio. Caliri says, "the car should be ready at the end of October, beginning of November." Will it be a revolutionary car, or a conventional one? Caliri replies indirectly: "I remember once at Ferrari when we tried long tails for Le Mans. We never managed to get the same results at the track that we'd got in the wind tunnel. Working in a wind tunnel is useful, but there's nothing like working at the track, and I think that a car like the Williams is the sort of car we should build".

The new F6 has conventional bodywork. The radiators are horizontally mounted. Note the small flaps on the side pods in front of the rear wheels, and the small nose Drawing of the new rear suspension, typically conventional. There is a large lower wishbone, an upper rocker arm with wishbone, inboard shock absorber mounted beside the disc, and twin caliper Lockheed brakes



DREAM DEBUT

Thursday seemed like an average sort of day. Geoff Lees had left his home near Tamworth and taken his car to the local garage. On his return, Helen Lees Informed her husband that there had been a phone call from Peter Gethin, the ex-Formula One driver who takes an interest in Lees's affairs. Would Geoff call back immediately, it was important.

At 10 am the following morning Geoff Lees was strapped into Candy Tyrrell 009/3 waiting for practice to commence at Hockenheim. The full effect of Gethin's call was hitting home as Lees sat quietly listening to the sound of his breathing inside the white Simpson helmet. There was no question about it now. He was going to make his first Grand Prix appearance.

Jean-Pierre Jarier's sudden illness had left Ken Tyrrell staring at an empty cockpit and a list of reserve drivers. He didn't like what he saw, preferring to give the drive to a young hopeful rather than an experienced runner. Tyrrell's telephonist worked overtime as calls flooded in from interested parties. Peter Gethin was one of them, reminding Tyrrell of the past performances of G. Lees, a fourth and fifth in his first two Formula Two appearances last year, competitive performances in the Aurora series, two second places in CanAm this year

Tyrrell needed little reminding. He knew about Lees already and admitted that he had thought of running the Englishman in a third car for last year's North Amercan Grand Prix. Unfortunately, the chassis rebuild programme made necessary by the Monza shunt precluded that. A meeting was arranged and it was soon established that Lees's CanAm performances would merit the necessary licence. Within hours, Geoff Lees was packing a clean set of Hawk overalls and making for the airport.

«I'm glad it happened so quickly». He said in his quiet voice tinged with a mild Midland accent, «I haven't had time to get nervous or think about it too much. To tell you the truth, I can't really believe I'm here», he added as he watched the pit lane by in full professional swing. Lees was the subject of photographers' attention as they took the opportunity to record a new mug shot. A film crew homed in and British journalists made the acquaintance of the man who could provide some welcome home news. Foreign journalists, scarcely able to spell Lees's name, quizzed Tyrrell on his choice of driver.

"He has shown a lot of promise and he had competed in the Aurora series which means that he has handled a DFV before. He knows how to start it for example and that's important when you are launching him straight into an official practice session. I know we are throwing him in the deep end but you usually find young drivers either make it or they don't."

Lees made no mistake about

his first day's practice by qualifying comfortably. Had he been overawed by such illustrious company on the race «No», came the unequivocal reply. «I didn't think about that because I was too busy learning about the car trying to qualify. Ken Tyrrell told me that it would be difficult to qualify, saying that I shouldn't try too hardd didn't want ad ms! That Helped me relax and I tried to do exactly what he told me. At first I was a little disappointed to be so far behind Didier Pironi but I knew I could improve on Saturday».

While everyone watched the battle for the front rows of the grid during the final practice session, the blue Tyrrell number 4 lapped without fuss or drama. Lees was given a set of qualifiers, the only set he would get. There could be no mistakes. Tyrrell plugged into 009/3 and quietly issued instructions. The tyres would only be good for two laps. The first should be spent raising the temperatures. Once he reached the stadium, Lees should begin to build up speed for the second lap. Lees left the pit lane knowing

he had to mix speed with caution. He wanted to do a quick lap but not at the expense of a walk back to the pit lane and an embarrassing interview with K. Tyrrell Esq. "I took it easy on the first lap», recalled Lees. «I made sure I was on my own because I didn't want to be blocked or have the worry about someone in my mirrors. Coming onto the pit straight I put my head down and had a go. I used more revs, braked 50 mètres later and turned in later. I kept as steady as possible, going as quickly as I left safe to go, I could't believe the difference those qualifiers made. It was quite frightening in a way because they



seemed to do everything twice as well. I kept feeling I could have braked even later than I had. I missed a gear coming out of the second chicane but that was the only mistake I made».

A respectable 16th and ahead of such notables as Rosberg and Mass. «It was a good effort», commented Tyrrell. «When he came past the pits, I could hear he was using more revs than before and he braked much later as he left the stadium. Bob skene and I looked at each other and we both said «the lads' shaving a go»!

Bob Skene and Steve Leyshon are the two mechanics who work on Jarier's car. Skene, a drole Aberdonian, and Leyshon, a bright eyed Welshman, form an ideal partnership in the true mechanic's mould of efficiency coupled with unflappable style They had to accept the fact that a total stranger was about to step into the chassis which formed the hub of their working hours. Mechanics appreciate racing drivers, loath prima donnas. It was soon obvious to the two men that Lees was the former, «He climbed into the car and after a few minor adjustments, he was off and getting on with the job», said Levshon», «What's more he brings the car back in one piece».

Lees had been most particular about keeping the car away from the kerbs as he got to grips with a ground effect chassis for the first time. "The speed is not new to me because a CanAm car is just as fast", he observed on race morning. "It's the grip and G-forces through the corners which are so incredible. My neck muscles were stiff after practice so I had a long steep in the bath last night and I feel much better this morning."

During the nerve-wracking countdown between the morning warm-up and the race, Lees sat camly outside the Candy - Tyrrell motorhome. «I don't feel nervous», he said with some surprise. «I suppose It's because it still seems too good to be true. I had always thought that if I ever make it into Grand Prix racing then the ideal teams would be Lotus or Tyrrell. And here I am driving for Ken Tyrrell, what more can you saw»?

BY MAURICE HAMILTON

Not a lot, except to ponder on race tactics. "I simply want to flinish, run in the middle of the pack and bring the gar home in one piece". Geoff Lees was as good as his word. 17th. at the end of the first lap, he went on to drive a controlled race, keeping in touch with his immediate rivals and flinishing seventh, one lap down on the leaders, one place away from a Champion-ship point.

It was a workmanlike job that could be rewarded with a glass of rose over dinner at the Heidelberg Holiday Inn. «The first corner was a bit hairy», he told Gethin. «I was sandwiched between two cars and Rosberg and I indulged in a bit of wheel banging. After that I kept going as hard as I could without doing anything stupid. I didn't even think about my neck and the race didn't seem long because, again, I am accustomed to that sort of thing in CanAm. When Villeneuve made his pit stop, I misread my pit signal and thought it was Laffite who was catching me. So when the Ligier came to lap me, I mistakenly held him up for part of the lap. Apart from that, I was OK». Having finished his meal. Lees went off to phone his wife. «Helen really kept me going during my Formula Ford days», Lees had said earlier. «I was running the car myself and she gave me the encouragement to go on». Lees rewarded his wife's faith by winning all three Formula Ford championships in 1975. Since then he has suffered the financial ups and downs familiar to any young racing driver as he moved into Formula 3 followed by Aurora, Formula 2, CanAm - and finally Formula One. There aren't many days like Thursday, but Geoff Lees makes the most of them when they come along.

WASHING IN RECORD TIME

new Candy "Primato" range

Candy has launched a range of washing machines with new, very advanced characteristics.

All of these new machines have in common, long lasting, tough design, energy saving features and new washing methods.

There is a Candy for example, which has one special control, "ZOOM" which shortens the washing time, but still carries out the complete wash. Thus when the clothes are only slightly dirty washing can be done faster (32 minutes quicker).

In order to wash the various fibres correctly the drum has three different movements. One for strong fibres, one for delicate fibres, and one for extremely delicate fibres. Just like washing by hand.

In addition there is a

Thermocontrol knob which
lowers the temperature of the
water and saves energy.

Candy: washing machines, tumble dryers, dish washers, refrigerators, fridge/freezers, cooker and hobs.



CARLOS REUTEMANN'S DIFFICULT WEEKEND

To have two bad accidents in one weekend is not something anyone would wish for, especially if one is not responsable for either of them. Carlos Reutemann hit the guard rails twice at Hockenheim. Not surprisingly, he wasn't too happy about it.

by Giorgio Piola_

The second qualifying session on Saturday afternoon had just begun. Already some drivers were setting fast times. In the Lotus camp, Andretti had fitted qualifying tyres early and had set fourth fastest time. Suddenly Nigel Bennett was on the alert. Carlos Reutemann should have gone past. He'd just left the pits and done one lap and the Englishman was waiting for him to go by again. Even if he was just warming up the car, he still should have been in sight by now. Bennett frowned, when a car breaks down on the circuit, it's not a good sign, and time is lost.

« Carlos Reutemann has crashed at the first chicane, » came over the loud speakers. Niki Lauda came into the pits and stopped beside Colin Chapman. « Carlos has gone off, but he's OK, I saw him walking around the car. » Chapman is relieved. When a driver disappears, it's always worrying.

Practice is stopped while Carlos's Lotus is retrieved. But the big Argentine still has not come back to the pits. Mimicha Reutemann looks pale. Colin Chapman notices and goes over to her: « Carlos is OK, » he assures her. « Niki saw him walking beside the car. Don't worry. » But Carlos's wife worries even more when she sees a doctor's car go out on the circuit. Chapman was in the back and Mimicha climbed in too. She was even paler than

STRANGE ACCIDENT

Finally Reutemann got back to the paddock. Basically he was OK, but visibly shocked. At least he wasn't injured. « I don't know what happened, " Carlos tried to explain. « The car suddenly spun and the next moment I was in the Armco. » Perhaps something had broken, but the car was so badly damaged after the accident that it was hard to find out what. But a driver error could almost certainly be ruled out: Carlos was on only his second lap, far from driving at the limit. « The marks on the track left by the car are very odd, " said Didier Pironi. « Something on the car must have broken. If it had just swopped ends by itself the marks would have been completely different. »

The spare car took a time to prepare because the cockpit was set up for the rather shorter Mario Andretti, Carlos went ble on the same circuit, but those days of glory seemed long past.

WILL HE? WON'T HE START?

After the Sunday morning warm-up, it was learnt that Carlos Reutemann almost certainly wouldn't start the race. The Argentine was suffering from a headache. "He's not feeling well this morning, " Bennett explained. "His reactions are rather slow. » Carlos, however, decided to start after all.

But he didn't come by at the end of the second lap: accident. We were watching the race with Raphael, the doctor that the South American drivers Fittipaldi, Reutemann and Piquet share. He told us, «/ strongly advised him not to start. His headaches were affecting his sense of balance. »

Carlos stayed out on the circuit until the end of the race. When Mario Andretti retired on the 17th lap, he went back to the pits to give them news of his team-



PATRESE'S REACTION

the pits. I wasn't looking pack to ine prise wasn't lookin lorward to explaining why I went off. »

wald to explain to fi. wall off. we'll didn't see Carlos until after the we didn't see Carlos until after the we deven then, it was he who came and the self-about what had become

And even talk about what had happened.

despite his well known shyness. He

oke in a call wanted to drive quietly told us. "I wanted to drive quietly

steadily. The stead of the stea

his despite in a calm voice: « it's incredible, »

he told us. I saw Patrese coming up and steadily. I saw Patrese coming up

of the solution of the solutio

overtook me, he touched me and sent over took me, he touched me and sent

overtook the Armco at over 125 mph.

me into the days, that's bad.

Two accidents to Patrese. He told me

"I've spoke" to see anything, couldn't

that he said his car weaved understand it. He said his car weaved

understand his Garlos paused, taking

under braking baused, taking into account his feelings and thoughts.

when a car brakes badly, you have

When a day business badry, you have to concentrate twice as hard when

to convenience, you've got to be care-

He admitted being very concerned

In his team's motorhome, Patrese was angry. He had a completely different view of the accident. Over and over again he repeated that he didn't see anything, that he'd overtaken Reutemann quite normally and that he'd braked quite calmly. « / didn't see anything and I didn't hear anything , he told us. The Italian was behind Mass at the time and he was scarcely in contention for one of the lea-

Having said that, it was quite clear that the two cars had touched one another. The front left wheel on the Lotus had obviously been it. As so often happens, it was difficult to work out what had happened exactly. Photographs or films might clarify the situation because without them it's hard to work out exactly the position of the two cars.

It's possible that because of his braking problems, having overtaken Reutemann Patrese braked a little earlier than normal ched

Jabouille at Silverstone, « the outcome would be different each time, and it certainly wouldn't turn out as well. It was really a miracle what happened at Dijon ». The proof of that fact is the Reutemann Patrese incident at Hocken-



Cockpits

SAUDIA-WILLIAMS Williams-Ford FW 07/04:

Alan Jones (AUS) Williams-Ford FW 07/02:

Clay Regazzoni (CH) Williams-Ford FW 07/01:

spare.

The Williams went to Hockenheim as great favourites. The English exercise had shown the potential of the FW 07s on fast circuits. The cars were still fitted with long side pods for greater streight line speed, but even so, both drivers asked for a little more downforce. The adjustment had quite an effect on Regazzoni's car. He had too much downforce and had trouble overtaking Laffite because



of lack of straight line speed in comparison to the Ligier, and wasn't nearly as quick as Jones.

Franck's weekend wasn't quite problem free, and Jones had to use the spare on occasions. Once again, he explained the simplicity of the car. "Our cars are that much better because they're of simple conception and have been carefully designed. Furthermore, they use aluminium in order to make them light and not cost too much."

It was just as well the German Grand Prix was only 45 laps long Another tour of the circuit might well have cost Jones his win because of a punctured nght rear wheel. Regazzoni also had problems during that last lap with the pump not picking up the last drops of fuel in the corners.

LIGIER-GITANES Ligier-Ford JS 11/04:

Jacques Laffite (F) Ligier-Ford JS 11/01: Jacky lckx (B)

Ligier-Ford JS11/03:

spare.

At Silverstone the theam discovered that part of the steering was wearing away, so Ducarouge had new mountings ont the uprights machined from steel for the three cars Furthermore, two chassis (04 and 01) had been regiged

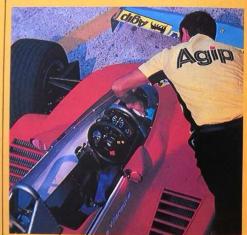
Duning the three days available for preparing for Hockenheim, the team tested various aerodynamic set-ups. Two factors seemed to work and were fitted to Laffitte's car: the lower part of the engine was covered as on the William, while there was also an addition on the wing inside the side pods which was extended in order to cover and protect the exhaust system.

Thus the extractors at the end of the side pods non longer did

loke's car was fitted with the same system, except that this fibreglass work extended further. However, his engine was conclosed. During the first qualifying session. Jacques only used 04 and found it inteal.

They set up the spare car on Saturday morning, but the clutch burnt out early on. On raceday Jacques' car was fitted with new brake discs and skirts made of carbon fibre. Icko's fuel pump seized during the warm-up. It was minor problem, but not one that was easily solved as the fuel pump was hard to get at. Jacques chose very little downforce on the car during the race for straight line speed in order to straight line speed in order to keep up with the Williams and Benaults. Regga was able to pass and pull away from Jacques thanks to his two slides. Ickx had the same problem as Patrese: a high speed blow-out of the right rear tyre which damaged the rear suspension.





FERRARI SEFAC Ferrari 312 T4/040:

Jody Scheckter (ZA) Ferrari 312 T4/041:

Gilles Villeneuve (CDN) Ferrari 312

T4/039:

Spare.

The Italian cars were well sorted on a track that didn't really
suit them. Forghieri brought
along three different types of
side pod which were tested by
each of the two drivers. Increased downforce by the pods
allowed less wing front and
rear. And then the suspension
was adjusted accordingly. They
broke fewer engines than at
Silverstone. Just one gave trou-

ble during practice and the team did their best to hide the fact. During the untimed session on Friday Gilles had a double spin which damaged the suspension, while Scheck-ter damaged his rear wing when he went off the road. The main problems with the 312 T4s was that they slightly lacked top speed, and the traction wans't too good. The aerodynamic and suspension adjustments slightly improved the situation, but didn't completely solve it. The battle between Piquet and Villeneuve during the race was proof of the fact. The Ferrari gained ground under braking and in the corners but dropped back under acceleration. Villeneuve's stop-was due to the rear wing splitt-Scheckter had no problems finishing fourth

MARLBORO TEAM McLaren-Ford M29/1: John Watson (IRL) McLaren-Ford M29/2: Patrick Tambay (F) McLaren-Ford M28/2: spare.

Tambay's race was full of frustation. He started well, leading his tearnmate, but once again, the renchman couldn't stay in font. From the 15th lap onwards, his water temperature stared to rise and then, on the 26th lap, the rear suspension field. It wasn't the first time that this had happened, he'd had the same problem on Sangday morning.

Jambay's car was absolutely brand new, and ran for the first time during the first practice session. It was fitted with a different rear suspension mounting system. It didn't consist of a tube framework but a simple alloy plate. The combined sping/shock absorber was mounted three centimeters further forwards than on John's car. The geometry was identical. The bulkhead that supports the rocker arm had been reintored since Silverstone.

Watson finished in a good fifth place after a steady race.







WARSTEINER-ARROWS Arrows-Ford A2/1:

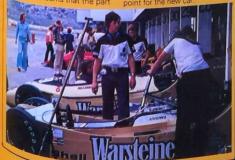
AZ/1:
Riccardo Patrese (I)
Arrows-Ford
AZ/2:
Jochen Mass (D)
Arrows-Ford
A1/3A:

spare.

After the British Grand Prix, the Aerows team began an intensional less programme at Silversione. Southgate admitted that their setting up had reached about the middle of development, but it seems that the part

that's been covered concerns straight line speed, the A2s were still not handling well. However, their cooling problems would seem to have been solved. The two cars no longer used the lower flap behind the engine, but were fitted with a more classic and more efficient rear wing. As well as problems with internal and external skirts, the Arrows had a number of water leaks caused by the considerable heat in the engine compartment.

The Arrows race was not that exciting. Patrese had a puncture in the right rear tyre when going through the long fast Ost Kurve, but Mass scored the first exist for the new Cat.





CANDY-TYRRELL Tyrrell-Ford 009/04: Didier Pironi (F) Tyrrell-Ford 009/03: Geoff Lees (GB) Tyrrell-Ford 009/01:

spare.

The Tyrrell team didn't have a very successful German Grand Prix. The cars were somewhat revised, the front suspension had been remounted signtly further back. The modification showed up well for Prioni went well in practice. His race was ruined from the start by a skirt which broke on the first lay Geoff Lees drove sensibly throughout and came home in seventh place.

PARMALAT BRABHAM Brabham-Alfa Romeo

BT 48/4: Niki Lauda (A)

Brabham-Alfa Romeo BT 48/3: Nelson Piquet (BR)

Brabham-Alfa Romeo BT 48/2:

spare.

Bernie Ecclestone may have done well financially out of the German Grand Prix on behalf of FOCA, but his team didn't do as well.

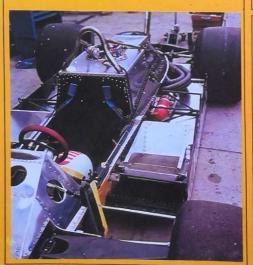
The three chassis were devoid of magaphone exhausts seen at Dijon. On the other hand, there was a gap in the side pods on the left side in order to cool the

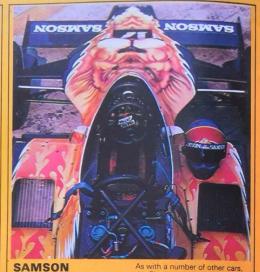
fuel pumps. Piquet tried a thic ker leading edge on his side pods in one session but didn't etain the configuration. The Brabham team didn't have the same trouble with broken engi-nes and exhausts that they had at Silverstone, Chiti of Alfa Romeo attributing them to an insufficiently stiff engine moun ting On Saturday the BT 48s fitted their qualifying tyres early and stopped early. Piquet engine started to show signs of posible failure, so it was changed, but it happened again or the 42nd lap when the Brazi-lian was in fifth place. Lauda broke his V12 on the 27th lap at the entry of the stadium.



TEAM MERZARIO Merzario-Ford A4/01:

A4/01: Arturo Merzario (I) "That's it," exclaimed Arturo,
"now my car is completely
finished. In England it was still
incomplete." Lapping in
around two minutes. Merzano
was going to have trouble qualifying.





SAMSON SHADOW Shadow-Ford DN9/28: Jan Lammers (NL) Shadow-Ford DN9/3B: Elio De Angelis (I) Shadow-Ford DN9/5B: spare Shadow-Ford

DN9/4B: Spare

Both of the race Shadows were fitted with the new suspension first tried and argued over at Silverstone, while the spare cars had the older suspension.

the Shadows had brake scoops as well as new scoops made of flexible platic behind the side pods and rear wheels. The two drivers broke numerous skirts (in particular the left ones) which were impossible to repair because of their carbon fibre construction. For most of the untimed practice on Friday the Shadows were to be seen stationary in the pits. Lammers had a broken exhaust and De Angelis had burnt the clutch. Neither of the Shadows ran particularly well in the race although Lammers was slightly happier, despite fluctuating fuel pressure.



ATS WHEELS ATS-Ford 02/03: Hans Stuck (D)

Hans Stuck (D)

ATS-Ford

D1/02:

spare.

In actual fact, Stuck didn't really have a spare car but an exhibition car without fuel tank and one whose engine wouldn't work, the team had been working on their new car during the two weeks separat-

ing the two Grands Prix. The gearbox broke during the Saturday morning practice session, and it was the engine's turn in the afternoon. A cooling scoop had been fitted to the fuel pump in order to combat vapourisation and every now and then, a bucket of water was emptied over it.

Hans caused his home crowd to reack unkindly when he went down the escape road into the stadium. The front left rocker had broken under braking into the stadium?

NARTINI NACING RACING TEAM LOTUS TEAM LOTUS TO ML 23: Mario Andretti (USA)

Lotus-Ford 19 ML 22: Carlos Reutemann (RA) Lotus-Ford 19 ML 21: spare.

Not a Grand prix that will stick in Colin Chapman's mind as one of the best. The disappointment of the weekend seemed to be highlighted by Carlos Regutemann's two accidents.

Reviewann's two actional reviewans are no particular modifications on the two 79 race cars. The rear suspension was mounted slightly higher than before. The 80 didn't make the 170. Andretti reckons it's a disaster. On the other hand, Chapman is working on a new version of the 79 which should appear at the Austrian Grand

Prix. He hasn't completely for gotten the concept of the 80 At the end of the official Friday session. Reutemann had only set 11th fastest time due to an electrical problem. The V8 was replaced that evening but the problem still wasn't eliminated They changed the spark box three times but still it didn't improve. Ten minutes after the start of the official session on Saturday. Carlos went off the road in a big way at the first chicane, the rear suspension very badly damaged. The condition of the car didn't allow the cause of the accident to be determined but it was suspected that a lost skirt caused him to go off. The spare car wasn't ready so Carlos didn't do any more laps that afternoon During the Sunday morning warm-up, the Argentine did only a few laps. The wheel rims had a smaller diameter than those suitable for the front uprights and they were found to be rubbing.



RENAULF-ELF Renault RS 11:

Jean-Pierre Jabouille (F)
Renault RS 12:
René Arnoux (F)
Renault RS 10:

spare.

The Renaults were still basically as at Silverstone, with little downforce, but they didn't give the results expected. On Friday morning, shortly after setting his best time, Jabouille disco-vered the earth at the side of the track and spun. It cost him ooth skirts, and he couldn't ontinue practice until much iter because the French team lidn't have a spare car on the irst day. In the afternoon Jacoulle set his winning 1'48"48 which no one ap proached. He himself admitted hat he probably wouldn't have been able to do the time wi hout a couple of tows during

On Saturday morning Amoux's 76 lost power which was finally attributed to valve springs. "7 lost around 600 revs which is important for straight line speed." But not only did he miss out on that session, but in the afternoon well, the spare had finally arrived in Germany, but there was still three hours of work to do on it So René could not defend his gnd position Jaboulle took part in this second official session, but only with 20 minutes to go and came in shortly after with btrake trouble.

The two Renaults scarcely had a fruitful race. Jabouille spun at the Sachs Curve and couldn't restart on the seventh lap, and Arnoux had the right rear tyre blow out at about 170 mph on the ninth lap. Hockenheim's heat caused the Renault's turbocharged engines to lose a little power, but at least they ddn't have the same trouble as last year.



COPERSUCAR-FITTIPALDI Copersucar-Ford F6/01:

Copersucar-Ford

spare.

mally the former World Chambon had his "new" car. It was based on the original Concorder Just the side pods were longer front nose fins were fitted for the first time. The front suspension was as on most Formula. One cars: wide bottom wishbones and a upper wishbone operating combined springs and shock absorbes in the front of the monocoque. The real suspension consisted of a relatively small lover wishbone with a rocker operating a similar shock absorber/spring action mounted beside the bell

housing
The half-shaft is mounted close to the top link in order to keep it out of the air stream.

Emerson was disappointed with the handling of the new car. "I can't judge how good its ground effect is because the skirts are sticking. Apart from that, the suspension settings

are only guesswork.

A number of little problems appeared parts were ill-litting and there were various leaks. Emerson did the first session without nose fins, then used them in the second, he had them reduced by half for the third session, but even so, lost that the control of the trade of

On Sunday morning, the mechanics adjusted the skirts system, but Fittipaldi retireed

Cockpits

OLYMPUS-WOLF Wolf-Ford WR 8: Keke Rosberg (SF) Wolf-Ford WR 9: spare

During practice Rosberg used both WR 8 and 9 without really finding the best handling He

the track on Friday but without damaging the car. He went out again in WR 8 instead but stopped shortly after because the rear left caliper was leaking brake fluid. He set an unflattering 17th fastest time in practice, and his race was equally unexciting. An unhappy weekend was brought to an unhapport conclusion when the engine puffed out smoke and he retire.





TEAM REBAQUE Lotus-Ford 79 ML 19:

Hector Rebaque (MEX) Lotus-Ford 78 ML 18:

spare

Neither of Rebaque's Lotus had been modified as he's busily having his own car built up. It's been designed bu Geoff Ferns of Penske and constructed by Dereck Walker and should appear for the first time at the Austrian Grand Prix. At Hockenheim, the handling of the Lotus 79 left a lot to be desired but it was the skirts that were giving the most trouble. On the 17th lap, Hector retired because of engine trouble, but he'd done quite a few laps with the right skirt stuck w.



TEAM ENSIGN Ensign-Ford MN 179:

Patrick Gaillard (F)

Their British Grand prix appearance had brought new hope to the team. They'd even done wind tunnel tests to determine a new shape for the wing inside the side pods. A small fin ran the length of each side pod and

the extractors were slightly higher than before. The engine was enclosed in aluminium underneath but that was damaged on the Friday and not replaced.

On Saturday morning, the Ensign went off into the sand at the Sachs Curve. Then during the official session in the afternoon, the rear suspension on the right hand side gave way in the first chicane. Patrick felt sthat the car wensn't quite as it had been and continued slowly, accelerating progressively until the Sachs Curve where he went off again. The rocker had broken and the side pod was

They managed to repair the car for the second half of the session. But Patrick only managed a few laps which allowed Rebaque to qualify during the final

Even though he found the car a little less understeering than on the Friday, patrick basically wasn't very happy with the car's handling, he didn't do the warm-up. "I'm first reserve, but even if I could start, it wouldn't really serve any purpose."



